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For Retailer, Wholesaler and Manufacturer

JULY 3 1954





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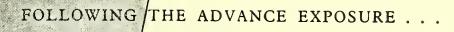
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by

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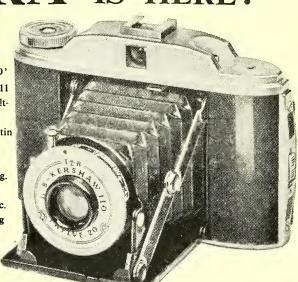
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Powder		2	1	8	0	3	4	
1 oz.		2	2	6	0	5	0	
2 oz.		3	2	11	0	8	9	
3/4 oz.		4	4	8	0	18	8	
6 oz.		2	5	8	0	11	4	
8/10 oz.		14	6	9	4	14	6	
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Every day the number of orders for the free-of-cost Certor Wrapping Paper Cabinet is going up. This popular cabinet, strongly made of wood, with oak finish, is now in use in about 1,700 dispensaries.

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Regular, forceful advertising will bring the advantages of DALMAPLAST home to millions of potential customers every week. Starting this month, advertisements will appear in the popular and women's magazines:— "Picture Post," "Illustrated," "John Bull," "Family Doctor," "Woman," "Woman's Own," "Woman's Weekly," "Woman and Home," "Housewife," "Nursery World," "Wife and Home" and many others.

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Please advise us of stocks held at June 30th. Credit Notes will be issued to adjust.

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This cut-out showcard and display carton will help to supplement your recommendation

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From the Carnegie Range of Fine Chemicals

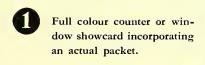
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A lovely woman and a snow-white sculpture, an honest and convincing story—all this presented perfectly in a Daily Express half-page is sure to boost Lux Toilet Soap sales again. You'll be secing this winning combination next week. Cash in on it! Check your stocks of Lux Toilet Soap today. And display now for extra sales!

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Size: 6' long x 3' 3'' high x 18'' B, to F. (tapering at top to 15'').

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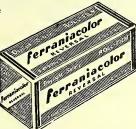
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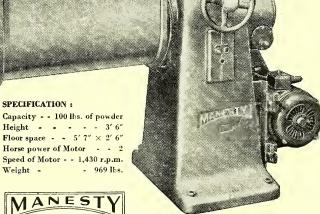
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New prices effective from July 1st, 1954





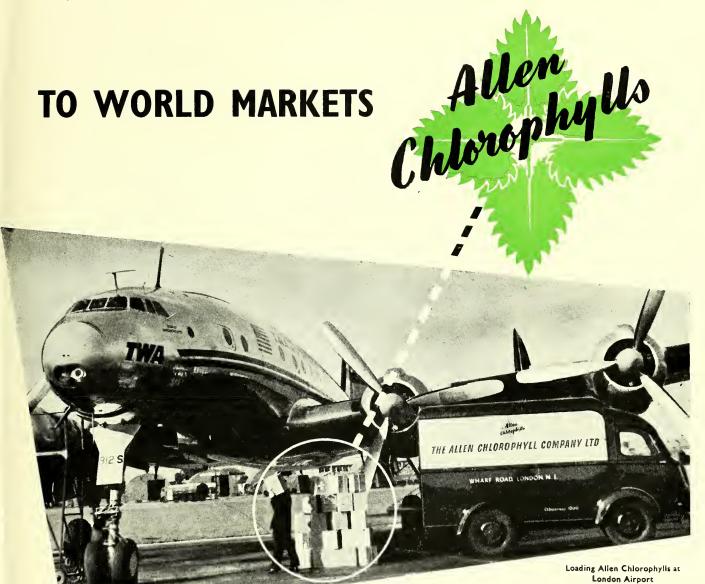
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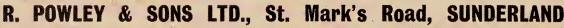
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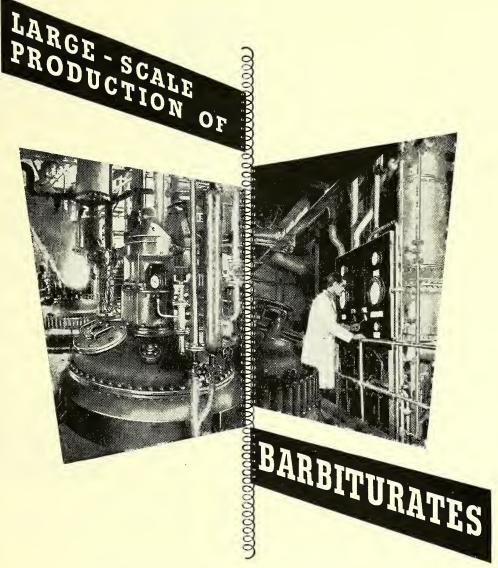


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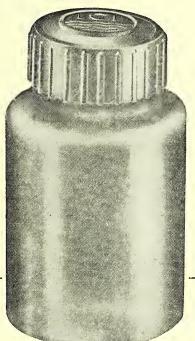
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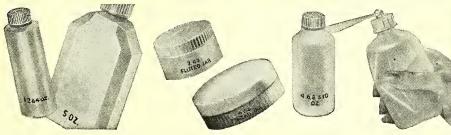
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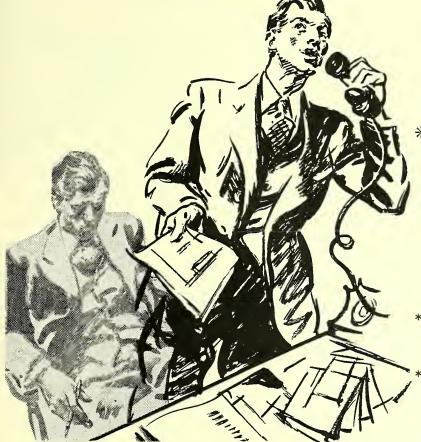
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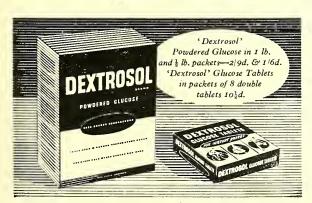


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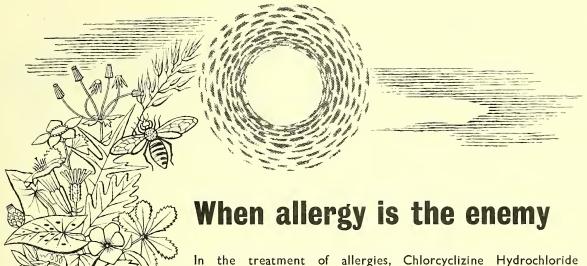
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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 162

July 3, 1954

No. 3880

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Volume 162

JULY 3, 1954

No. 3880

Council Member Honoured

GUEST OF LOCAL BRANCH MEMBERS

AN informal celebration was held in Southsea, on June 21, by members of the Portsmouth Branch of the Pharmaceutical Society in conjunction with the Portsmouth Chemists' Association, in honour of Mr. J. C. Bloomfield's recent election to the Council of the Society.

MR. L. J. CHAMBERLAIN (chairman of the Branch) offered to Mr. Bloomfield the congratulations of the Branch. It was the first time, he said, that Portsmouth pharmacists had had the honour of being represented on the Council. Speaking on behalf of the Association, THE PRESIDENT (Mr. M. A. Guernier) also congratulated Mr. Bloomfield on his success.

MR. N. FRANCIS (lecturer in the

pharmacy department of the Municipal College, Portsmouth) pointed out that Mr. Bloomfield was born and bred in Portsmouth and was a past student of the college.

MR. BLOOMFIELD suitably replied.

AROMATIC COMPOUNDS Manufacturers' export aims

AT the annual meeting of the British Aromatic Compound Manufacturers'
Association on June 23, reference was made to exports of aromatic compounds and the efforts of the Association to secure the largest possible representation in the bilateral trade agreements negotiated with various countries. In some instances reasonable export quotas had been obtained but in others a great deal of difficulty had been experienced. The quotas for Norway, Finland and Spain were infininorway, Finland and Spain were infinitesimal compared with the amount of trade that could be done, given the opportunity. In those and other cases the problem of balance of payments had to be overcome, but the Association intended to press their claims as occasion arose. Following discussion occasion arose. Following discussion on the report it was agreed that, as an alternative to pressing for the remission of import duty on essential oils (as had been suggested by the Essential Oil Importers' section of the London Chamber of Commerce (C. & D., 1953. 2. 554)), the executive committee should examine the possibility of making out a case for drawback of import duty not only on essential oils exported as such, but also on dutiable materials contained in exported aromatic compounds, isolates, etc. The report and accounts were adopted. Messrs. J. A. Pentecost (A. Boake Roberts & Co., Ltd.) and L. L. Hitchen (Stafford Allen & Sons, Ltd.) were re-elected Chairman The and Vice-chairman respectively. committee was re-elected en bloc.

CHINESE TRADE VISIT Talks with delegation begin

THE party of Chinese trade experts who were invited to Britain for talks with representatives of industry and commerce (C. & D., June 12, p. 589), arrived on June 28 and are expected to stay for about a fortnight. The programme arranged for them includes visits to factories, talks on matters of general principle affecting Sino-British trade, and meetings with representa-tives of industrial trade associations and of importers and exporters of Chinese goods. The subjects to be raised under the heading of general principles will include methods of payment and contract terms for goods moving both ways, trade systems and contacts, the functions of the merchant, technical services and representation in China, the value of Hong Kong in the China trade, the position of private Chinese traders, trade marks, and other questions of general interest both now and for the future. The aim of the talks and meetings will be to clear away existing hindrances to trade and to prepare the ground for a substantial increase in the exchange of goods and services be-tween the U.K., China and Hong Kong within the limits of the present international restrictions. It is understood that certain members of the Association of British Phaimaceutical

Industry were meeting the delegation on the day this issue of the paper went to press.

PENICILLIN CEREMONY Gift to Sir Alexander Fleming

AT St. Mary's Hospital Medical School, London, on June 29, the Duke of Edinburgh presented Sir Alexander Fleming with a pair of silver George III sauce tureens, to mark the twentyfifth anniversary of the discovery of penicillin. The presentation was made by the Duke on behalf of the medi-cal school, with which Sir Alexander Fleming has a long association. SIR ALEXANDER FLEMING, in his response, expressed his continuing amazement that the presence on one of his culture plates of a minute spore of mould, half the size of a blood corpuscle, had resulted in the creation of a large industry employing thousands of people in most of the important countries in the world. He said that he might never have noticed the happening which eventually led to penicillin but for his previous work in association with Sir Almroth Wright. The Duke of Edinburgh accepted from Sir Alexander Fleming a medallion in which was mounted a specimen culture of the original mould.

PUBLIC PHARMACISTS Special meeting and ballot

A SPECIAL meeting of the Guild of Public Pharmacists, called at the request of a number of members in Scotland, was held in London on June 26. A motion dealing with a proposed salary claim was lost by 40 to 42 votes, whereupon ten members demanded a postal ballot. A full report of the discussions is being sent to all Guild members, together with the ballot forms. At a Council meeting held in the morning the following officers were



PORTSMOUTH CELEBRATION: Members of the Portsmouth Branch of the Pharmaceutical Society with their guest. Left to right: Mr. N. L. Banks (secretary of the Branch), Mrs. L. J. Chamberlain, Mr. L. J. Chamberlain (chairman of the Branch), Mrs. J. C. Bloomfield, Mr. J. C. Bloomfield, Mrs. N. L. Banks, Mrs. M. A. Guernier and Mr. M. A. Guernier (president of the Association),

elected: President, Mr. A. M. Mees; Vice-President, Mr. S. Powlson; Treasurer, Miss E. Button; Registrar, Mr. C. H. Preston Robinson; Secretary, Mr. J. Moore, 14 Oakbank Close, Haywards Heath, Sussex.

FACTORY STATISTICS Report of chief inspector

THE report of the Chief Inspector of Factories for 1952 issued recently (H.M. Stationery Office, price 6s, 6d.) states that at the end of the year 237,293 factories were registered compared with 238,709 in 1951. Mechanisation of plant, in particular mechanical handling, continued to receive increasing attention in all types of in-dustry. There were twelve fatal and 419 non-fatal fires resulting in personal injury. Many of those incidents had arisen because of failure ("which is evidently widespread") to appreciate the dangers inherent in inflammable liquids, even in small quantities. Much attention has been paid during the year to the installation of systems for giving audible warning in case of fire. During the year some manufacturers asked the advice of the Factory Department in connection with a number of solvent extraction plants, e.g., those in which inflammable liquids are used to extract vegetable oils from seeds. Where plants were still in the design state companies were willing to make considerable alterations in their plans to raise the standard of safety. progress was made with existing plants because any considerable improvement often involved much reconstruction.

ONE PRESCRIPTION, £132

AT a meeting of the London Executive Council held recently it was stated that the London Pricing Bureau had reported on a prescription issued by an Essex doctor which was dispensed in London and therefore paid for by the London Executive Council. The prescription was for Hydrosulphosol solution, 36 oz., and the total cost to the Council was £131 10s. 1d., made up as follows:—

Ingredient cost £76 10s. 0d. 25 per cent, oncost ... £19 2s. 6d. Total charges (air freight, duty, insurance, etc.) £35 16s. 5d.

£131 8s. 11d.

Dispensing fee and container allowance ... 1s. 2d.

£131 10s. 1d.

It is understood that the prescription was issued in connection with the treatment of a skin condition.

ROYAL SOCIETY

AMONG awards under the Royal Society and Nuffield Foundation Commonwealth Bursaries Scheme announced by the Society recently is one for Dr. J. Crossland (lecturer in physiology, St. Andrew's University) to enable him to visit Montreal, Canada, from August to December, to study the behaviour of acetylcholine in the brain. The Alan Johnston Lawrence and Moseley Research Fellowship has been awarded by the council of the Society to Dr. D. S. Robinson (Sir

William Dunn school of pathology, Oxford University) for work on the biochemistry of lipid distribution and transport in plasma and its relation to the problem of atherosclerosis. A Stothert research fellowship has been awarded to Miss D. Salmony (Courtauld Institute of Biochemistry, London) for work on the effects of sex hormones on cell metabolism.

BRITISH FAIR OVERSEAS

AN all-British trade fair and exhibition will be held in Copenhagen from September 29 to October 16, 1955, with the full support of the British and Danish Governments. The Federation of British Industries (one of the two organiscrs) point out that Anglo-Danish trade is at a high level, and it is of the greatest importance to both countries that it should continue to increase. On a per-caput basis Denmark is a close second to Norway as Britain's best market in Europe, and with the progressive relaxation of restrictions her imports should continue to increase. A prospectus is being issued early in September. Inquiries from prospective exhibitors are welcomed by British Overseas Fairs, Ltd., 21 Tothill Street, London, S.W.1.

PHARMACY J.I.C.

THE National Joint Industrial Council for Retail Pharmacy has appointed the following officers for 1954-55: President, Sir John Forster, Q.C.; Chairman, Mr. D. W. Hudson; Vice-chairman, Mr. F. W. Connelly; Employers' Side Secretary, Mr. H. Noble, 4 Queen Square, London, W.C.1; and Trade Union Side Secretary, Mr. J. D. Hiscock, Oakley, Wilmslow Road, Fallowfield, Manchester, 14.

EVERY SAMPLE CORRECT

IT is stated in the annual report of the Buckinghamshire Pharmaceutical Committee that the standard of the pharmaceutical service throughout the county remains high, every sample taken under the drug testing scheme having been correct. Tests taken and submitted for analysis numbered forty-seven drugs and ten appliances.

RETAIL SALES IN APRIL

RECENTLY issued Board of Trade figures show that sales of chemists' goods in large establishments in April were the same as in March and 9 per cent. higher than in April 1953; and that in independent retail shops sales were 2 per cent. higher than in March and 8 per cent. higher than in April 1953.

VISIT TO WESTMINSTER

MEMBERS of the Epsom and Sutton Branch of the Pharmaceutical Society recently visited the Palace of Westminster. Arrangements were made by Sir Hugh Linstead for the party to be conducted through the House of Commons and the House of Lords.

CAMERA SNATCHED

A SMASH-AND-GRAB thief, after throwing a stone wrapped in a newspaper through the window of a chemist's shop in Queen Street, Morley, Yorks, just after midnight recently, made off with a £21 camera. The manager of the shop (Mr. R. I. Cooper) who lives on the premises, pursued the burglar and a police patrol car searched the district, but the thief escaped.

BRUSH MANUFACTURERS

AT the recent annual meeting of the British Brush Manufacturers' Association the following officers were elected for 1954-55: President, Mr. F. R. Wright; Vice-presidents, Messrs. K. H. Watkins and A. R. Culmer; Treasurer, Mr. Davis Burrow.

GIFTS FOR LONG SERVICE

PARKE, DAVIS & CO., LTD., entertained to dinner at Hounslow on June 15, 259 members of the staff who had completed more than ten years' of unbroken service with the company. Each was presented by Mr. Leslie O. Smith (general manager of the company's European branch) with a "service pin."

TAX OFF SOAP URGED

AT a meeting of the north-eastern area council of the National Chamber of Trade at Ilkley, Yorks, on June 16. a resolution was approved from the Sunderland chamber of trade urging the withdrawal of purchase tax on all soap.

IRISH NEWS CHEMISTS' OUTING

THE Chemists' and Druggists' Society of Ireland held their annual outing on June 16, visiting Antrim and the shores of Lough Neagh. Mr. F. T. Smith, M.P.S.N.I., and his daughter (Miss M. Smith, M.P.S.N.I.) of Antrim, acted as guides to the places of interest. Mr. Fred Storey, C.B.E. (president of the Society) welcoming the guests, said they were honoured in having the presidents of the Pharmaceutical Society of Northern Ireland (Mr. W. H. Boyd) and of the Ulster Chemists' Association (Mr. H. G. Campbell) with them. He was glad to see Miss A. E. Strachan there. He worked with her as an enthusiastic secretary of the Northern Ireland Committee of the Chemists Federation of which he had the honour to be vice-chairman. He had been privileged to be at the recent official opening of the College of Pharmacy and headquarters of the Pharmaceutical Society of Ireland in Dublin (see p. 10) and he was glad and proud to see the tremendous strides pharmacy had made in the Irish Republic. Mr. W. H. Boyd referred to the excellent relationship which now existed between the Pharmaceutical Society of Northern Ireland, the Ulster Chemists' Association and the Chemists' and Druggists' Society, and said he would be most happy to see the same relationship prevailing amongst individual chemists. Mr. H. G. CAMPBELL expressed pleasure in meeting the members of "this, the oldest ing the members of society," and said t and said that the younger members of the profession would do well to study the example set by those older members in upholding the dignity of the profession.

COLLEGE ATHLETIC CLUB

AN appeal for financial support has been issued on behalf of the College of Pharmacy Gaelic Athletic Association club. During the past season the club has played an unusually heavy number of matches and other engagements have to be filled, all of which entail considerable travelling expenses. In addition medical expenses were incurred where players received injuries during play. Subscriptions may be sent to Mr. M. Hanna, M.P.S.I. (chairman), 66a Upper Georges Street, Dun Laoghaire; Mr. C. Conefrey, L.P.S.I. (treasurer), Butler's Medical Hall, Eden Quay, Dublin; or to any member of the committee.

EXAMINATION RESULTS

SUCCESSFUL candidates in the Qualifying examination of the Pharmaceutical Society of Northern Ireland held in June were: J. H. S. Allen, Catherine Bradley, Bridget C. B. Bryson, V. Corrie, G. H. Duke, F. A. Dunn, P. A. Falls, W. T. Gamble, Pearl Gaston, J. G. Hannon, Mary E. Hendron, Oonagh R. Herbert, Elizabeth A. Heslip, J. L. Hill, Mary J. Lenny, F. A. McCaughan, M. J. McDermott, C. P. McGarity, J. J. McKelvey, D. W. McMullan, Marie T. McShane, Barbara J. Miller, S. McC. Moore, A. Murphy, W. A. Neill, Margaret F. F. Orr, Margaret H. Shaw, J. Webb and R. J. White.

NEWS IN BRIEF

MAIZE starch may be imported from dollar countries under open individual licences from July 1, instead of under specific licences as hitherto.

THE Ovaltine dairy herd has gained thirty-five awards in the five shows in which it has been entered since January.

EMPLOYEES at the Newport, Mon, factory of Monsanto Chemicals, Ltd., on June 24 completed two million man-hours of work without a lost-time accident.

SPORT

Golf.—London Chemists' Golfing Society, at North Middlesex golf club on June 24. Medal competition for captain's prize won by E. G. Smith (6), 69 net (senior division) and H. Monkman (15), 65 net (junior division). Bogey competition for Leichner cup won by G. H. Hankinson (13), all square, Other leading scorers: Medal, E. G. Nice, 70 net; G. T. Morson, 71 net; W. S. Hutcheon, 73 net; and R. C. Poole, 73 net. Bogey, H. Monkman, all square; E. G. Smith, 1 down; and E. G. Nice, 2 down.

HULL CHEMISTS' ASSOCIATION AND BRANCH, at Hessle golf club, on June 17. Annual golf competition for Lofthouse cup, Winner: J. Riseam; runner-up: F. Kress, Those present included the chairman (G. W. Hind) and vice-chairman (A. Brown), Mrs, Hind presented the prizes, Arrangements were made by Messis, J. E. Hindle and E. Naylor.

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, at High Peak golf club, on June 16. Kerfoot trophy and prize, Winner: W. E. Phillipson. A vote of thanks to the donors of the prize (Thomas Kerfoot & Co., Ltd.) was proposed by the captain (G. Morgan-Evans).

CROYDON AND EPSOM BRANCHES, PHARMACEUTI-CAL SOCIETY, at Shirley Park, Croydon, on June 23. Return golf match, Croydon won by four matches to one.

TOPICAL REFLECTIONS

By Xrayser

Inexhaustible Oxford

When one of your Annual Special Issues is compared with another of similar contents the thought occurs to me that some subjects are inexhaustible. Oxford is one of them. By looking back to 1894, when the British Pharmaceutical Conference met there, or to 1923, when it was the venue of a day's excursion, we realise how subtly changes take place without seeming to alter essential features. In 1923 there was a slight emphasis on the architecture of the city, on its history, on famous inhabitants of past days: today we are more intent on developments that are in progress. A good variety of pharmacies has been selected and illustrated, not only in Oxford but also in the surrounding neighbourhood. A few names are missing, notably that of George Claridge Druce, D.Sc., distinguished alike in botany and in civic administration. His pharmacy was well placed opposite the Mitre. Bequests will keep his name in memory. A long span of years elapses between the work of Robert Boyle, the "father of chemistry," and that of Howard Florey, the cultivator of penicillin. They are linked however, if in no other way, by the fact that each chose Oxford as a background to their labours. The article on the united Oxford hospitals (p. 665) will no doubt be of great interest to hospital pharmacists many of whom, it is to be expected, will be attending the 1954 conference meeting.

Medicine and Pharmacy

Professor Charles Singer wrote for THE CHEMIST AND DRUGGIST, more than thirty years ago, a series of articles on the history of medicine. Professor Singer, who is Fellow of Magdalen College, Oxford, and Emeritus Professor of the History of Medicine in the University of London, now deals with early pharmacopæias and the earlier drug lists. other matters of direct interest to pharmacists is Mr. Laurence Dopson's 'Vanished Pharmacies of Bloomsbury," which must have involved much research. Studies of relics are continued and extensively illustrated by Miss Agnes Lothian with "Bird Designs on English Drug Jars." Similarly, there are curios from the Oxford Museum of the History of Science. Broadening the scope of your subjects, you have dealt with pure science. applied science, colour photography, the mercury market and the acacia market. I need hardly add that a quota of news accompanies this generous selection of information. The brief account by Sir Austin Hudson, Bt., M.P., of the history of Morgan Brothers (Publishers), Ltd. will, I hope, be heard of again. A year seems a long interval between these unique dips into history.

Joseph Barcroft

Since the curriculum of the Pharmaceutical Society of Great Britain now includes physiology and pharmacology, I am glad to call attention to the biography of Sir Joseph Barcroft (1872-1947) by Kenneth J. Franklin. The publishers are Blackwells Scientific Publications, Ltd., Oxford. At the age of eighteen, while still at school, Barcroft gained the B.Sc. degree of London; and in 1896 he graduated B.A. at Cambridge. University colleagues in the early years of his career included F. G. Hopkins and H. H. Dale. It was not long before he began to specialise in research on the blood. In the opinion of Sir Henry Dale, his three monographs published in 1900-01, comparing venous blood emerging from the submaxillary gland with gases in arterial blood are entitled to rank as one of the classics of physiology: the work was a pioneer study, carried out almost single-handed and with cumbrous apparatus. Extensive research in changes in blood caused by reduced intake of oxygen prepared him to deal with gas attacks launched against British troops during World War I. Later he became an authority on such subjects as fœtal breathing and work at great altitudes. He was a great man of science: his published works numbered over 300.

Proprietor Chemists of the North-east

SUNDAY AFTERNOON CONFERENCE AT HARROGATE

A CONFERENCE of members of the National Pharmaceutical Union in business in Yorkshire, Durham and Northumberland was held in Harrogate on June 27. More members were present than have attended any previous area conference of the Union. Members were welcomed by Mr. T. HESELTINE (a member of the Executive, representing division 2 of the Northeastern electoral area), and the chairman of the N.P.U. (Mr. L. H. Teare)

The business of the conference was dealt with principally under three head-N.P.U. matters; C.F. matters; and N.H.S. matters.

Union's Services

Introducing the first, MR. E. A. BROCKLEHURST said that the Union was only effective if its services were used. The Chemists' Sickness and Provident Society showed better results than any other similar body, but only 2,300 members took advantage of it. The Chemists' Mutual Insurance had 60,000 policies in force, and gave members a 20 per cent, advantage in rates over other insurance companies. The Chemists' Defence Association and the Business Purchase and Guarantee Fund offered similar advantages.

There followed seven resolutions. LEEDS BRANCH called for an increase in membership fees to allow more funds for national and branch activities. Mr. H. Noble (N.P.U. secretary) pointed out that the year's accounts had shown no need of more money but in fact a large surplus. If members indicated that they wanted the Union to widen its activities then a higher subscription would be asked for. Mr. M. JACKSON, Leeds, wanted the Executive to be in a position to tackle any proposition (such as more C.F. publicity), and Mr. C. S. CHALLINOR, Castleford, also thought there should be a good reserve fund. MR. T. HESELTINE advocated providing reference books for members. On a promise that the matter would be put on the agenda for the next Executive meeting the resolution lapsed.

resolution, next MIDDLESBROUGH BRANCH, endorsed the Union's policy towards Reckitt and Colman, Ltd., and asked for news of its effect. The Secretary had no recent statistics of the campaign, but said the most recent survey had shown 70 per cent. support for the policy among members. Some members complained from the floor that the campaign had not been sufficiently vigorously conducted. It should be more constantly kept before members and something should be done from headquarters to divert the public to alternative products or to support the manufacturers who produced them. The resolution was carried, without apparent support for one member's suggestion of a "token strike" during the C.F. window display

Middlesbrough Branch had also some suggestions for improving the

N.P.U. price list, especially by including a packed goods section. Mr. Talvan Rees, for the publications committee, said that the committee had found such variations in packed goods prices that they found no basis on which to work. They were, however, preparing a list of currently charged retail prices so that members could fix their own prices in full knowledge of the competition.

THE CHAIRMAN gave an undertaking that the Executive would consider improving the price list on the lines suggested.

HUDDERSFIELD BRANCH called for more up-to-date data in the Union's pink supplement. Several members spoke in support, one calling for more news, another for a correspondence column. The resolution was carried.

Veterinary supplies were the subject of the next resolution, put by Middles-brough Branch. The mover pointed out that the refusal of manufacturers of veterinary vaccines, sera, and of some Schedule 4 products, to supply to chemists for stock was depriving pharmacists of their right to use their qualification. The motion called for support in compelling manufacturers to supply all their products through pharmaceutical channels.

MR. E. A. BROCKLEHURST, who was asked to explain the policy of the Pharmaceutical Society, said that the Council had tried to get on good terms with the veterinary surgeons and to en-courage the use of veterinary prescriptions and supply through chemists. It was not in a good position to push for the supply of biological products in the absence of diagnosis by the veter-inarian. Mr. J. Holt, Yarm, Yorks, said that that viewpoint of the Society could be understood, but it was difficult to see how it could apply to products for prophylaxis. Mr. T. HESEL-TINE said that the Society had been pestering manufacturers to make their goods available through pharmacists.

The resolution was carried.

Welfare Foods

MR. H. WALKER, Huddersfield, who moved a resolution from his Branch that the N.P.U. should again investigate the possibility of securing the distribution of dried milk and orange juice through pharmacists, said that that course was logical. The only difficulty was in establishing a suitable basis. Mr. G. Greenwood, who seconded, said that the matter could become serious in the future, since some local authorities were approaching chemists with propositions of distribution without payment, Mr. Noble declared that the Ministry was not interested in any form of distribution that was not free. He was sorry that some chemists had undertaken to distribute the standard without the standard with the standard without the standa tribute the products without charge. MR. J. E. HINDLE, Hull, urged sanctions against any N.P.U. member who acted in that way. MR, Noble said that that policy was being seriously considered. It was certain that the

multiple chemists would only distribute orange juice and dried milk on a free basis if private chemists started to do so. He had had no recent contacts with co-operative leaders on the sub-ject, but when last the matter had been discussed with them they had been in agreement with N.P.U. policy. The motion was carried.

Executive and Council Members

The last resolution in the section directly affected the status of two members on the platform. It was by Huddersfield Branch and expressed the view that members of the N.P.U. Executive should not seek election to the Pharmaceutical Society's Council. Mr. F. North, who moved it, drew attention to a trend in the politics of the Pharmaceutical Society that was viewed with some foreboding as being likely to usurp and stultify the activities and authority of the N.P.U. "We do say that if you are interested in the continuing success and progress of this Union to be the negotiating body for and protector of proprietor pharmacists, you must think very carefully about the implications."

All remembered the early days of N.H.S., he said, with the Society "pulling all strings" in an effort to become the negotiating medium with the Ministry, but always having to re-member that skeleton in the cupboard —the Jenkin case.

The Society's new Charter had well and truly buried the Jenkin case, "and now there is no bit in the jaw to steady or halt them." In London at the time of the Society's annual meeting, the president of the Society had referred to the changing objects of the Society relating to protection, which he had coupled with the widening interests of the Society, remarking that at present those were more potential than actual. "We wonder for how than actual.

In the eyes of most members, the Revised Statement on Matters of Professional Conduct dealt with matters that were not professional but commercial, and as such should be outside the Society's purview. In those and many other directions, the proprietor pharmacist was seeing certain aspects of the Society's policy developing in a manner subversive of their general interests. Some felt that certain of their elected N.P.U. stalwarts, by virtue of their membership were unwith tue of their membership, were unwittingly becoming a party to those move-The two organisations should run not in opposition but collaterally. Nevertheless, there was a wide divergence of views between the two. If the prestige, authority and indepen-dence of the N.P.U. was to be main-tained, it was necessary that its executive body should be under no obligation to the opinions and ideas of others. The present state of pharmaccutical politics required a very active and watchful N.P.U. Executive.

MR. C. S. CHALLINOR, Castleford,

was completely opposed to the idea be-

hind the resolution. The National Pharmaceutical Union should have, he urged, the advantage that came from having some of its Executive members on the Society's Council. The presence of N.P.U. members on the council of the Proprietary Articles Trade Association was a decided advantage to that body. Mr. J. B. Kerr, Cudworth, agreed, He contended that the most constructive policies of the Council had come from its N.P.U. members. Mr. B. W. Whittaker, Bradford, noted on the other hand that some persons, after becoming members of the Council, had become supporters of its themes of the moment. He hoped the Executive would consider the subject as a policy matter.

Miss D. I. Chang, Leeds, said that

MISS D. I. CHANG, Leeds, said that it was the right of any member of the Society to stand for Council, and she could not see why any should be

debarred.

The resolution was iost.

Opening the second subject, C.F. matters, MR. R. H. KEMP (secretary of the Chemists Federation) said he was disappointed that there were no resolutions about it on the agenda. Did that mean that all were satisfied with C.F.? Or that they were apathetic? Retail business was becoming more complicated. It was the duty of all pharmacists to maintain and enhance their business and professional prestige. That was done by carefully selecting the products they should support. All possible display and personal recommendation should be given to C.F. products, and eligible non-C.F. firms prodded to join. The next C.F. display fortnight had been deliberately set at the first two weeks in 1955 to coincide with the removal of Christmas windows and give an opportunity for maximum

C.F. support. Mr. Kemp mentioned that the movement had entered a new

phase with the appointment of a full-

time representative who was now on the road. Mr. Kemp gave answers to one or two specific queries on C.F.

policy and practice. On-account Payments

The final section of the conference, taken after an interval for tea, opened with a statement by Mr. G. H. M. GRAHAM on National Health Service remuneration. Mr. Graham dealt first with on-account payments, the basis of which was changing. The arrangement introduced in 1948 had had the purpose of securing that contractors were no more out of pocket than if they had been paid by the fifteenth of the month following the one in which the prescriptions were sent in (about six weeks, that is, after the end of the month in which they were dispensed). On that principle the on-account payment would, with pricing arrears almost overtaken, fall due for abandonment, and contractors would be, in effect, having to finance the pharmaceutical service for about eight weeks out of their own pockets. The Ministry proposed to remove that sacrifice by making a lump sum equivalent to 50 per cent, of a notional figure for a month's dispensing for each contractor. The lump sum would remain on his books as a notional debt to the Ministry until he ceased to be a contractor, when it would become an actual repayment by him to the Ministry That scheme, which was set forth in a memorandum to Pharmaceutical Committees, was being recommended by the contractors' committee for acceptance.

The pricing offices, said Mr. Graham, were on the verge of clearing off arrears, and contractors would naturally think that a return to full pricing was called for. The Ministry thought otherwise, but the Minister had received a deputation from the central committee and had gone so far as to agree that the ideal method would be pricing in full. He had promised to write a letter to the committee after considering what the deputation had said to him.

The container costs inquiry was next referred to. It had ended the previous night, He hoped and prayed that more would come back than in the N.P.U.'s own inquiry into contractors' costs. To his regret many contractors would help neither themselves nor their colleagues.

The four resolutions in this section were all carried. The first urged the negotiators to emphasise the increased cost of living. The second urged a letter stressing the full implications of the need of those approached for statistics and urging chemists who were approached for data to give them as asked. The third recommended the inclusion of doctors' code numbers on EC10 prescriptions. And the fourth called upon the Ministry to try to stabilise the surgery hours of prescribers.

In the morning a special service for pharmacists attending the conference was held at St. Peter's Church, Harrogate. Two coaches took the ladies on an afternoon excursion to Bolton Abbey.

ELECTRONIC CLINICAL THERMOMETER

First change in ninety years gives 5-second readings

THE first change in clinical thermometers in almost ninety years since the mercury column type temperature indicator was introduced in 1867 is re-

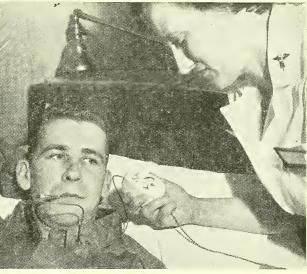
depend on the expansion of mercury when heated to get a reading, Swiftem uses metals whose ability to conduct electricity varies with temperature.

TAKING A PATIENT'S TEMPERATURE WITH THE NEW ELECTRONIC THERMOMETER: metal tube about 43 in. long is inserted under a patient's tongue. By means of a transmiswire, the mctal tube is connected to a small mercury-cell battery contained in plastic case small enough to be held easily in the hand. Temperatures are read on a calibrated scale on a meter. Over a range of ten degrees the instrument is accurate to within one-tenth of a degree, which compares with between four-tenths to cight-tenths of a degree for conventional instruments.

presented by a new electronically controlled instrument that utilises the electrical resistance of metals to give highly accurate readings in five to seven seconds. The instrument, the Swiftem, has been developed by United States Army scientists under Colonel George T. Perkins (director of the dental division, Army Medical Service Graduate School, Walter Reed Hospital, Washington, D.C.). The Swiftem is being produced on a commercial basis, though still in limited quantities, by the Burlington Instrument Co., Burlington, Iowa.

COLONEL PERKINS said the instrument can record temperatures by remote control. He foresees the time when all the beds in a nospital ward will be wired so that patients can place a thermometer under their tongues or arms and a nurse at a distant part of the ward will be able to read off their temperatures from a meter.

Unlike present thermometers, which



The higher the temperature, in other words, the lower their electrical resis-Oxides of uranium, nickel, tance. cobalt, and manganese are among the chief metals suitable for that purpose. In use, they are placed in a small unbreakable metal tube $4\frac{3}{4}$ in. in length, which is inserted under a patient's tongue or placed under his arm. By means of a transmission wire, the metal tube is connected to a small mercury cell battery contained in a plastic case small enough to be held casily in the Temperatures are read on a hand. calibrated scale on a meter. Over a range of ten degrees the instrument is accurate to within one-tenth of a degree, which compares with between four-tenths to eight-tenths of a degree for conventional instruments studied in Army tests. According to the in Army tests. According to the general manager of the manufacturers, models of the electronic thermometer intended for doctors' use cost between \$60 and \$70 (20-25 guineas).

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

SUN LAB EQUIPMENT CO., LTD. (P.C.).—Capital £500, To carry on the business of manufacturers of chemical machinery, etc. Directors: George T. Stokes, William T. Holland, Kathleen M. Mew and Albert H. Nicholls. R.O.: 338 Streatham High Road, London, S.W.16.

DAWSONS AMMONIA DISTIL-LERS, LTD, (P.C.).—Capital £15,000. To acquire the business of ammonia distiller carried on by Percy Dawson at Ashton Marsh, Preston. Directors: Percy Dawson, William A. Dawson and Irene McGlashan. Solicitors: E. Napthen & Co., Preston.

RIDSDALES CHEMISTS (LEEDS), LTD. (P.C.).—Capital £4,000. To acquire the business of retail chemist carried on by J. P. Ridsdale, M.P.S., at Leeds. Directors: John B. Mitchell, Constance M. Mitchell, Edward M. Mann, Norah M. Mann, Mendel Shapiro, Eunice Shapiro and Harold Sharp. R.O.: 16 Branch Road, Leeds, 12.

H. SUGDEN, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in perfumes, cosmetics, toilet requisites, etc. Subscribers: Doris A. Golland and Lilian Stoney. The first directors are to be appointed by the subscribers. R.O.: 19 Drake Street, Rochdale.

WENDT (GREAT BRITAIN), LTD. (P.C.).—Capital £500. To carry on the business of manufacturers of and dealers in chemical, pharmaceutical preparations, etc. Directors: Otto Wendt, Perstorp, Sweden, and Edgar H. Richardson, 41 Montague Avenue, Sanderstead, Surrey.

Company News
Previous year's figures in parentheses

BIOREX LABORATORIES, LTD.
—Mr. Arnold Hagenbach has joined the board.

POTTER & CLARKE, LTD.—Colonel Geoffrey Russell-Hay, O.B.E., has been elected to the board.

PERSONALITY BEAUTY PRODUCTS, LTD.—Mr. A. H. Peck has resigned his directorship of the company.

SANITAS CO., LTD. — Group net profit for year to March 31 was £118,622 (£105,884) after tax of £116,107 (£109,774). Ordinary dividend absorbs £49,500 (nil).

UNITED GLASS BOTTLE MANU-FACTURERS, LTD. — Mr. J. M. Thrussell (sales director) has by reason of ill-health relinquished his seat on the board on his retirement from the company.

H. W. CARTER & CO., LTD.— Mr. F. D. Armstrong, J.P., has been appointed chairman and managing director, and Mr. C. H. Massingham deputy managing director, of the company.

LAPORTE INDUSTRIES, LTD.—
Mr. L. P. O'Brien has been re-elected chairman and Mr. C. H. Burton vice-chairman of the company. Mr. P. D. O'Brien has been elected deputy

chairman. Mr. L. P. O'Brien is managing director, and Messrs. P. D. O'Brien and B. E. A. Vigers are joint assistant managing directors.

GRIFFITHS HUGHES PROPRIETARIES, LTD. — A dividend on the ordinary stock for the year ended March 31 of $7\frac{1}{2}$ per cent. (same) is recommended. The consolidated profit of the operating company and its subsidiaries was £384,257 (£365,979). After taxation, £206,483 (£212,342), the payment of dividends, and the placing of £64,725 to reserve (£50,000 plus £30,000 from taxation account) the carry forward for the year is £70,472 (£58,646).

GRIFFIN & TATLOCK, LTD., and W & J. GEORGE & BECKER, LTD., in a joint statement issued on June 29, announce the merging of their two organisations. Pending the administrative and physical integration of the organisations, which will be a gradual process, they will continue to trade, until further notice, under their existing names and at their present addresses. The chairman of the new company (to be known as Griffin & George, Ltd.), is Mr. R. McKinnon Wood, O.B.E., M.A., F.R.Ae.S., and the vice-chairman Mr. H. R. Bettinson, M.C.

THE WEEK IN PARLIAMENT

MR. A. BLENKINSOP asked Mr. H. Crookshank (Lord Privy Seal) on June 24 whether the Food and Drugs Bill was to be postponed until next Session. MR. CROOKSHANK: It is not being taken next week. MR. F. BESWICK asked: "Would Mr. Crookshank not admit that 'this play-acting' about the Food and Drugs Bill is getting a little strange?" MR. CROOKSHANK replied that there was no play-acting. MR. H. MORRISON asked if the excuse "it is not being taken next week" was not getting thin.

Number of N.H.S. Chemists

In a written answer on June 24, Mr. IAIN MACLEOD (Minister of Health) told Mr. N. N. Dodds that there were now 15,622 chemists' shops "employed on making up National Health Service prescriptions" as against 14,822 in 1951.

Purchase Tax

During the Committee stage of the Finance Bill on June 28, MR. DOUGLAS JAY moved the first of two new clauses designed to reduce the first and second rates of purchase tax from 50 and 25 per cent. to 45 and 163 per cent. of wholesale value of the goods. Mr. BOYD-CARPENTER (Financial Secretary to the Treasury) said that purchase tax was an important revenue tax, and would bring in about £300 millions this year. The proposals in the amendments would be singularly costly. The first would cost about £11 millions and the second about £44 millions. The Chancellor of the Exchequer could not, in present circumstances, sacrifice the substantial amounts of revenue involved. The first clause was withdrawn and the second rejected by a Government majority of forty-six.

BUSINESS CHANGES

T. C. CORNWELL, LTD., advise that because of street renumbering the postal address of their Basford branch is now 418 Shelton New Road, Basford, Stoke-on-Trent.

RIMMEL, LTD., is the new title adopted by Rimmel Distributors, Ltd. The company has moved its showrooms to 118 Park Lane, London, W.1 (telephone: Grosvenor 2062).

THE telephone number of Polak & Schwarz (England), Ltd., 50 Great Cambridge Road, Enfield, Middlesex, has been changed to Enfield 6781. Their address on the International Teleprinter service is London 2641.

Appointments

W. SUTTON & CO. (DRUGGISTS' SUNDRIES, LONDON), LTD., Chase Side, Enfield, Middlesex, have appointed Mr. A. H. Peck to their sales staff.

SIMON, MAY & CO., LTD., Weekday Cross, Nottingham, have appointed Mr. H. G. Taylor, 88 Colston Street, Bristol, 1, their agent for hair nets in Wales and the South Coast.

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1, have appointed Mr. W. L. Lowden their representative in the Leicester, Northampton and Cambridge areas. Mr. J. L. Radcliffe will represent the company in the Devon, Cornwall and Somerset areas.

G. D. SEARLE & CO., LTD., 17 Manchester Street, London, W.1, have appointed the following to their representative staff: Messrs. O. G. Doy, East Anglia; G. A. Gellatly, West Scotland; H. G. Knights, East Scotland; D. J. S. Pendlebury, Lancashire; R. H. Schlesinger, West Midlands; and D. M. Sickelmore, South-western counties.

OVERSEAS VISIT

MR. LESLIE CUSSONS (chairman, Cussons, Sons & Co., Ltd.) left Britain on June 25 to visit Australia and New Zealand to contact the company's agents there and generally review the firm's export activities. Mr. Cussons expects to be away for about four months.

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY

East Metropolitan Branch. — Chairman, Mr. T. W. Hill; Vice-chairmen, Messrs, J. Reed and B. W. Beard; Secretary and Treasurer, Mr. H. L. Crossley, 61 Beulah Road, London, E.17.

West Kent Branch. — Chairman, Mr. W. R. Roberts; Vice-chairman, Mr. S. J. Hamer; Treasurer, Mr. A. W. Jutton; Assistant Secretary, Mr. L. A. Jupp; Secretary, Mr. W. E. Walton, 184 High Street, Penge, London, S.E.20.

PHARMACEUTICAL ASSOCIATIONS

Croydon Association and Branch. — President of the Association, Mr. R. Swindells; Vice-president of the Association, Miss A. McCarthy; Secretary of the Association, Miss A. McCarthy, 48 Thornton Road, Thornton Heath, Surrey; Chairmau of the Branch, Mr. W. A. Billings; Secretary of the Branch, Mr. A. Seath, 436 High Road, Streatham, London, S.W.16; Treasurer, Mr. D. J. Williams; Social Secretary, Mr. H. R. Gilby, 81 Southbridge Road, Croydon.

MARRIAGES

GRIFFIN — REES. — At St. Laurence's Church, Kilmacud, co. Dublin, recently, Thomas Gerard Griffin. M.P.S.I., Enniscorthy, co. Wexford, to Kay Rees, Belcoo, co. Fermanagh.

HOGG-SKEOCH. -- At Merrylea Parish Church, Newlands, Glasgow, on June 22, Richard Macnair Hogg, M.P.S., 87 Fernleigh Road, Newlands, Glasgow, S.3, to Doreen Mary Rae Skeoch, 89 Lochlea Road, Newlands. Mr. Hogg is the only son of Mr. David Hogg, M.P.S.

DEATHS

BUSH.-On June 29, Mr. Horace Stanley Bush, aged seventy. Mr. Bush was chairman of Smith, Kendon, Ltd. He had held that position since 1948 when Smith & Co., a firm established in 1780, was formed into a private company.

CARTWRIGHT.—At 15 Scott Crescent, Galashiels, Selkirks, on May 16, Mrs. Mary A. Hall, widow of Mr. Benjamin Cartwright, who qualified as a chemist and druggist in 1887.

HILL. — On June 25, Dr. Thomas George Hill, aged seventy-eight. Dr. Hill was emeritus professor of plant physiology, University College, London University. He was for some time lecturer in biology at St. Thomas's Hospital medical school and later became lecturer in and subsequently professor of plant physiology at University College, London. In collaboration with Dr. P. Haas he wrote *The Chemistry of Plant Products*. Another work of Hill's was his Essentials of Illustration

HOWARTH.—At West Hill House, Downe, Farnborough, Kent, on June 22, Mr. Osbert John Radelyffe Howarth, O.B.E., aged seventy-six. Mr. Howarth was for many years secretary of the British Association. He became assistant secretary (later styled secretary) in 1909, and he did not leave the position until 1946. He was resident at Down House, under the Association, from 1929 until 1953.

POCOCK.—On June 8, Mr. Harold Edward Pocock, M.P.S., 87 Holyhead Road, Handsworth, Birmingham, 21, aged sixty.

ROBERTS.—Suddenly, on June 15, Mr. John Lewis Williams Roberts, M.P.S., 7 Waterloo Road, Falmouth, Cornwall. Mr. Roberts qualified in Mr. Roberts qualified in 1922. He was manager of Wilmer & Hocking, Ltd., Falmouth.

STARMER.—On June 11, Mr. George Frederick Starmer, 1 Cavendish Avenue, St. Leonards-on-Sea, Sussex, aged seventy-five. Mr. Starmer qualified as a chemist and druggist in 1902.

WATSON. — On June 24, Mr. Charles Herbert Watson, M.P.S., 26 Stenson Road, Derby. Mr. Watson qualified as a chemist and druggist in 1903. He was a member of the committee of Derby branch of the Pharmaceutical Society for twelve years. The business at 26 Stenson Road is now carried on by his eldest son, Mr. D. C. Watson, M.P.S.

PERSONALITIES

MR. SANDY PATERSON (Scottish representative of the Cooper Laboratory, Ltd.) is now progressing satisfactorily after his recent illness (see C. & D., June 12, p. 598).

MR. REGINALD GEORGE (managing director, Ortho Pharmaceutical,



Mr. R. George

Ltd., High Wycombe, Bucks) has re-ceived the Research Institute America of 1953 award for h i s contribution to the development of executive skills in human relations and man - power. utilisation.

MR. JAMES

Ltd.,

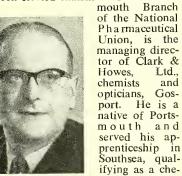
and

(only son of Mr. R. A. McEwen, M.P.S.N.I., Belfast) has obtained the degree of M.Sc. (faculty of science) from Queen's University, Belfast.

MR. S. J. McLOUGHLIN has obtained third place in Ireland in the May examination of the Institute of Chartered Accountants. Mr. McLough-lin is the only son of Mr. S. McLoughlin, M.P.S.N.I., Belfast, who is the chairman of the Northern Ireland Local Pharmaceutical Committee,

MR. A. W. DANIEL, M.P.S., Romford, Essex, has been elected president of the Essex County Chess Association. Mr. Daniel's chess activities commenced early in the century and in 1904 he won the bronze medal of the Seventh American Chess Congress for a set of problems.

MR. ROY E. CLARK, M.P.S., who has been elected chairman of the Ports-



mist and druggist in 1936 and as an optician in 1938. During the 1939-45 war he served in the Royal Navy as an optical ordnance artificer in the cruiser "Black Prince."

PROFESSOR J. TRUETA (Nuffield professor of orthopædic surgery, Oxford University) was recently invested with the medal of Chevalier of the Legion of Honour in recognition of his services to France during the 1939-45 war when, as a surgeon at the Wingfield Morris Hospital, Oxford, he devised a new plaster-of-paris orthopædic treatment, which he applied to many French officers in 1940.

MR. J. F. B. MOORE, who has been elected chairman of the South Shields Pharmacists' Association, is a native of Nottingham, where he was educated and where he served his apprenticeship with Boots, Ltd. After qualifying in 1941, he joined the Royal Navy and served in Northern Ireland and in Sydney, Australia. On his demobilisation in 1946 he rejoined Boots, Ltd., Nottingham, and became a manager in 1948. He moved to South Shields in 1952 and in that year became secretary of the Association of which he is now chairman. He is a secretary of the Sunderland Branch of the Pharmaceutical Society. His other interests are woodwork, motoring and amateur theatricals.

MR. HORATIO TODD, M.P.S.N.I., J.P., was awarded an O.B.E. in the

Queen's Birthday Honocallist published on June 10 (see C. & D., June 19, p. 617). Mr. Todd qualified in 1902 and for about fifty years has carried on business in Belfast. He has been for many years treasurer of the Belfast Victoria Unionist



Association, and a leading member of the Strandtown Unionist Club. He is also a member of the National Assistance Board Advisory Committee.

MISS M. P. GREEN, M.P.S., D.B.A., who has been re-elected chair-man of the East Midlands Branch of the Guild of Public Pharmacists was apprenticed to Boots, Ltd., qualified from Nottingham University in 1945, and subsequently obtained the Pharmaceutical Society's Diploma in Biochemical Analysis. In 1946 she joined the staff of the Nottingham Children's Hospital, where she holds the post of senior pharmacist. She is a past secretary of the Nottingham Branch of the National Association of Women Pharmacists; she was chairman of the East Midlands Branch of the Guild of Public Pharmacists for 1953-54 and is vicechairman of the Nottingham Branch of the Pharmaceutical Society,



DIRECTORS AT GARDEN PARTY: Harold J. Cotes (managing director) with Sir Roger Duncalfe (chairman) at coming-of-age garden party of British Glues and Chemicals, Ltd., in June, when Mr. and Mrs. Cotes welcomed over one hundred guests to their Sutton, Surrey, home for the twenty-first party held for staff of the Group. Many of the guests (including Sir Roger) had attended every one of the parties, which began in 1928. (The war years caused a break.)

TRADE NOTES

A Drug Tariff Item.—Nu-San dressings of Dalmas, Ltd., Junior Street, Leicester, are on the Drug Tariff as compound aminacrine gauze with mercury. They are available in boxes of five or ten pieces each $3\frac{3}{4}$ in. square.

Foreign Proprietaries Again.-With import restrictions relaxed, Wilcox, Jozeau & Co., Ltd., 74 White Lion Street, London, N.1, are resuming their service of providing Continental proprietaries not normally carried in

General Release.—Sharp & Dohme, Ltd., Hoddesdon, Herts, announce that Tyotocin antibiotic ear-drops are now generally released. The drops are packed in 15-mil dropper bottle. The product is to be "actively promoted" to the medical profession.

Distributors in the South-west.-Western Chemists Agencies Co., Mangotsfield Road, Mangotsfield, Bristol, have been appointed sole sales agents in South-western England, South Wales and the Channel Islands for Robert Gibson & Sons, Ltd., Carlton Works, Erskine Street, Hulme, Manchester, 15, manufacturers of Mecca pastilles and glucose products.

An Additional Strength.— Evans Medical Supplies, Ltd., Speke, Liverpool, 19, have added the suffix 200 to Praducil tablets containing 200,000 units of benzylpenicillin B.P. (sodium salt) and introduced a new strength, Praducil 400, containing 400,000 units of the salt. The present 10's pack of Praducil 200 is being discontinued when stocks are exhausted. Two new packs have been introduced.

To Produce in Britain. - The Sunbeam Corporation of Chicago, Illinois, U.S.A., has organised a British subsidiary, Sunbeam Electric, Ltd., to manufacture and deal in electrical appliances including the Sunbeam Shavemaster electric shaver. A site for the feature has been efforced to the the factory has been offered to the

company at East Kilbride, Scotland. Temporary headquarters are at 17 Dover Street, London, W.1.

Again Freely Available.—Allenburys glycerine and blackcurrant pastilles are again freely available from the manufacturers, Allen & Hanburys,



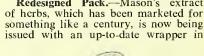
Ltd., Bethnal Green, London, E.2. Since the removal of war-emergency restrictions the rising home and export dcmand has greatly exceeded the supply hitherto.

Policy Change.-From July 1, Duncan, Flockhart & Co., Ltd., 104 Holy-rood Road, Edinburgh, 8, are concentrating their activities on developing their speciality products. Distribution of Duncan anæsthetics and medical specialities is being continued from stocks held at Edinburgh and at the company's London premises, 155 Farringdon Road, E.C.I. The service formerly given to retail chemists in Scotland is being operated by the parent company, T. & H. Smith, Ltd., from their Edinburgh and Glasgow premises.

Fowl Typhoid Treatment. — A. J. White, Ltd., 120 Coldharbour Lane, London, S.E.5, have now introduced Neftin (NF-180) furazolidone premix (see C. & D., May 8, p. 469) as a treatment for fowl typhoid and pullorum disease (B.W.D.). Neftin is claimed to give a high rate of cure claimed to give a high rate of cure and to leave an extremely small percentage of carriers after it has done its work. Research into those properties of the product was carried out at the Animal Health Trust poultry-re-search station, and the report, pub-lished in the Veterinary Record (April 10) described the new compound as "greatly superior to all others so far tested." Neftin is available in 1-lb. carton (sufficient for a six-day course for 800 chickens or 120 adult birds).

Agreement Renewed. - The further extension is announced of a long-term licence agreement under which the J. Arthur Rank Organisation will continue to manufacture Bell & Howell Company motion-picture equipment in England for sale in sterling-area countries. The first agreement between the two companies was signed in 1946. Since then British Acoustic Films, Ltd., have manufactured Bell & Howell 35-mm. studio equipment and amateur motion-picture cameras and projectors under the trade name of "G.B.-Bell & Howell." Distribution has been by Howell." Distribution has been by G.B. Equipments, Ltd., 37 Mortimer Street, London, W.1. Arrangements have also been completed for a longterm extension of an existing agree-ment for the distribution by Bell & Howell Company of high-precision Taylor, Taylor & Hobson lenses in the U.S.A. and other countries. British Acoustic Films, Ltd., G.B. Equipments, Ltd., and Taylor, Taylor & Hobson, Ltd., are all members of the British Optical and Precision Engineers' group, a division of the Rank organisation.

Redesigned Pack.-Mason's extract of herbs, which has been marketed for something like a century, is now being





specially designed counter-display carton. The makers are Newball & Mason, Ltd., Nottingham.

FATTY-ACID MAKERS FOR 100 YEARS

And fully equipped for the second century

SINCE 1854, Price's (Bromborough), Ltd., Bromborough, Cheshire, an associate company of Unilever, Ltd., has specialised at their Merseyside factory in turning crude fats and oils into refined fatty acids. Today its products are the essential raw materials for an increasing number of industries. The company derives from the enterprise of William Wilson, who decided to build a factory, erect a model village, and settle workers in the then remote and isolated fields of Bromborough Pool. The business became one of the parents of the modern technological revolution. For its second century the company has set itself a programme in widening the application of fatty acids to industrial processes and producing them more speedily and economically. In fulfilment of that aim it has equipped itself with new forms of continuous production plant unique in the United Kingdom. Candles, originally one of the principal products of the

concern, today are no longer made at Bromborough. Since 1936, Price's Patent Candle Co., Ltd., has had no connection with Price's (Bromborough), Ltd., or with the Unilever group. Stearine, with the related products oleine, glycerin, fatty acids and fatty alcohols, now find their principal applications industrially in the making of rubber tyrcs, the moulding of a great variety of articles from telephones to aspirin tablets, in emulsifying and lubricating, waterproofing, and at almost every stage of the manufacture of textiles. The company's products arc used to make flavouring essences and perfumes, industrial and household soaps and other detergents, horticul-tural sprays, blending agents for dyes, etc The highest quality of stearine is known as "cosmetic quality." It is used in skin creams. Products of the company enter into shaving-sticks, tooth-pastes, shampoo powders, hair oils and creams, and lipsticks.

NEW PRODUCTS AND PACKS

Solid Lavender.—R. J. Reuter Co., Ltd., 50 Upper Brook Street, London, W.1, have followed up their 4711 solid eau-de-Cologne, introduced in 1953, with a solid lavender wrapped in silver foil and presented in a green-and-ivory case embossed with the 4711 trade mark.

Cotton-wool Dispenser. — E. Illingworth & Co. (Bradford), Ltd., Shelf Mills, Shelf, nr. Halifax, Yorks, are the manufacturers of the Illmond cotton-wool dispenser, from which the user pulls each time only as much as she needs, thus keeping the cotton-wool clean up to the moment of use.

Combined Antibiotic Injection.—
Pfizer, Ltd., 137 Sandgate Road, Folkestone, announce the introduction of Combiotic, a combined penicillin and dihydrostreptomycin injection, each siliconed vial of which contains procaine penicillin-G, 300,000 units; crystalline penicillin-G (potassium salt), 100,000 units; and dihydrostreptomycin equivalent to 0.5 gm, base. The main clinical indication for Combiotic is in the treatment of mixed or multiple infections. It is also useful in pathogen-caused conditions that are relatively resistant to penicillin or di-

hydrostreptomycin alone but scnsitive to the two in combination.

A New Topical Anæsthetic.--Menley & James, Ltd., Coldharbour Lane, London, S.E.5, announce the introduc-tion of Quotane, a topical anæsthetic for relieving the symptoms of itching, burning and pain associated with skin lesions. Quotane belongs to the aminoalkoxyisoquinoline group of compounds. It has a long-lasting effect and low index of sensitisation. Its use does not constitute a treatment of the lesion but, when treatment that causes the patient discomfort is being given, discourages the scratching that so often leads to secondary infection. It has shown especially good results in anogenital pruritus. Quotane is issued in a 1-oz. (28gm.) tube.

Indelible Lipstick Demonstrated.—A lipstick of completely new formula, claimed by the makers to be absolutely indelible, was demonstrated to a selected audience on June 29 by Sans Egal International (London), Ltd., 50 Upper Brook Street, London, W.1. The lipstick, which is made to the special formula of a Danish chemist (Mr. Bjarne Askvold) owes its indelible qualities to the fact that is it manu-

factured entirely with soluble dyes, which "blend into the skin." No pigments remain on the surface of the lips to come off on cups, cigarettes, handkerchiefs, etc. Already the lipstick is understood to be a "best-scller" in Scandinavia and Finland. It is fast gaining popularity in other Continental countries. In Britain it is manufactured and distributed by Scott & Bowne, 50 Upper Brook Street, London, W.1, and all the basic materials used in its manufacture are British. There are eight colours (dancing flame, right royal, caprice, dreamy pink, sugar-plum pink, surc fire, cherokee and monsoon). The lipstick is presented in a gold case with star-design that is repeated on the triangular red, black and gold pack. A refill, in a similar pack, is wrapped in foil so that it can be placed in the container without marking the fingers.

Plastic Baby-pants.—J. W. S. Hislop, Ltd., 50 Fore Street, London, N.18, are manufacturers of Kumfi Kiddy baby pants in a new embossed plastic material. The pants are guaranteed waterproof and washable, and are soft and pliable; they are packed in hygienic transparent envelopes.

MEDICAL PRACTICE IN THE HEALTH SERVICE

Pharmaceutical implications in a committee's report

THAT the present arrangements for prescribing and dispensing medicines are "generally and in principle right" is one of the conclusions of the report of the Committee on General Practice within the National Health Service which was published on June 29. Under the chairmanship of Sir Henry Cohen, the committee was appointed by the Central Health Services Coun-

cil in December 1950.

The report states that evidence submitted to the Committee showed that practitioners who did their own dis-"incurred significantly pensing cost than the average cost of prescribing for the whole service, and it was suggested, therefore, that all practitioners should be encouraged to do their own dispensing." Pointing out that in rural areas where there is no pharmacist available within a mile of the patient's residence the doctor is in fact normally required to dispense for his patients, the report observes that to extend generally the requirement that doctors should do their own dispensing would undoubtedly place a very great additional burden on doctors working in urban and industrial areas. Mentioning that the interests of pharmacists cannot be disregarded, the report adds that it is also an advantage that they can stock a wider range of medicines than can a dispensing doctor normally. "Thus," it concludes, "it is in the patient's interest as well as the pharmacist's that the normal arrangements for dispensing should be through pharmacists.

On economy in prescribing, the Committee advocates that local medical committees should have more frequent contact with their constituents

and meet sometimes jointly with their pharmaceutical colleagues.

The Committee with one dissentient expressed agreement with the general advice given by the Joint Committee on Prescribing on the classification of drugs.

The report mentions that the Ministry of Health aims to bring its investigations into over-prescribing within a time-limit of six months and states that the Committee appreciates that for practical reasons it may not be possible to reduce the time below that.

possible to reduce the time below that.

The Committee "hopes and understands that they [area averages] will become available, at least periodically in selected areas, in the not-too-distant future. The 'areal average' should not of course be regarded as the only criterion of excessive prescribing."

The Committee considers that Prescribers' Notes are serving a useful purpose and it hopes that their publication will be continued and developed. It recommends that those notes, the National Formulary and other official documents on prescribing should be issued to medical students during their clinical training and intern year.

The Committee decided that in principle it is right to regard prescribing as an integral part of general practice within the Service. It does not recommend that doctors should be allowed to use EC10's for their private

patients.

The report recommends that the Minister of Health should recognise the procedure adopted by some doctors of amending the heading of EC10's according to the area in which a prescription is made out, so as to avoid the carrying of separate books

of forms for the area of each Executive Council in which they practise.

The Committee believes that a scheme for permitting doctors, by the use of a modified EC10, to obtain stocks of drugs for use in their own surgeries would lead to economy in prescribing, and hopes that it may be given a trial. Stating that such a scheme already exists in Scotland, the Committee points out that the introduction of such a scheme in England has been prevented by the unwillingness, following the introduction of the shilling charge, of the representatives of the pharmacists to operate it. The Committee admits that the scheme might be open to abuse and mentions "alleged" difficulties. for example. "alleged" difficulties, for example, the fact that general practitioners might err by unwittingly using those drugs for private patients, or might be tempted to indulge in a concealed form of lavish prescribing aimed at attracting patients.

Elsewhere, the report advocates the provision of centralised arrangements for the sterilisation of syringes, a facility which it suggests would be of great value to general medical practitioners.

The Committee notes that independent observers have been shocked by the low standards of accommodation and equipment provided by some doctors in some areas. It gives its opinion that a low standard of accommodation cannot be justified, and that the time has now come to press for improvement, particularly in the case of some industrial practices. A significant comment by *The Times* is worth quoting. "The committee's report," it says, "probably marks the final burying of the health centre idea."

MINISTER OPENS DUBLIN COLLEGE

(Concluded from The Chemist and Druggist, June 26, p. 642)

IN his address at the official opening of the college and headquarters of the Pharmaceutical Society of Ireland on June 14, THE MINISTER FOR HEALTH (Mr. T. F. O'Higgins, S.C., T.D.), the first part of whose address has been previously given, further said: It is pleasing to record that, with wholehearted co-operation between the Society and the Registered Druggists' Association, those obstacles [to recasting the system of education] were successfully overcome. I am glad to say the Oireachtas in 1951 did their part by enshrining the agreement reached between these two bodies in an Act now on the statute book. But while the State removed the statutory barriers that stopped the Society from carrying into effect the training reforms proposed, and endorsed the new system of training, the sole credit for establishing this college, opened today, must go to the Society. The Council are rightly proud of their independence that the content of the conte dence, that they are self-supporting, and that the entire work of acquiring, renovating and equipping the premises was completed without any contribution from ratepayers or taxpayers. As soon as the Oireachtas had passed the amending Act of three years ago the Society produced a new scheme for the training of students, under which the rights of all existing students had to be safeguarded. The delicate and difficult transition period between the ending of the old scheme and the commencement of the new had to be provided for. It is a tribute to the fore-sight of the Council and the registrar that those difficulties were smoothed over and that the new college of pharmacy is now functioning. I believe that the Society will not be content to rest on its oars but will be its own severest critic in ensuring that whatever amendments experience shows to be desirable are made. I wish it every success in its future efforts.

President's Reply

THE PRESIDENT (Mr. Costello) having expressed the Society's thanks to the Minister for carrying out the official ceremony, went on to say: Inevitably, on a day like this, we remember others who have gone to their reward; and whose efforts helped to lay the foundations on which we have built. Amongst our guests I see before me several distinguished men in the profession whose names have been on the register for half a century or more. They can well recall those early days when the pharmaceutical chemist made many of his own tinctures, infusions Today, the young and preparations. pharmacist must have a knowledge not only of the older drugs in the Pharmacopœia, but must be up-to-date in his knowledge of the modern medicaments in this age of antibiotics, hormones, vitamins and other new agents of proved worth. The creation of this institution marks big changes and advances in our educational system to enable the student of today to measure up to the progress which has taken place in recent years in medicine and therapeutics generally. The opening of this college is therefore something more than a milestone in the history of the profession.

Many parents who send a son or daughter to pharmacy may reasonably ask why an intensive five-year course of studies should be necessary. We hold that such a course is essential if our licentiates are not to lag behind those of other countries in professional attainments. Another aspect of college life which we have borne in mind is the development of an ethical outlook, necessary to any profession but essential in ours where the "art and mystery" still prevail. In this respect we enjoy a high reputation, acquired through years of conscientious service. The high code of honour amongst chemists is something taken for granted: a wonderful compliment when it is remembered that many of the restraints are self-imposed.

Apart from chemists in private practice, most hospitals and institutions have one of our members on their staffs, but I feel it my duty to draw attention to the fact that there are still hospitals and institutions that do not appreciate their obligation to the public in this respect. I will go further and say that in the public interest, the pharmaccutical chemist with his specialised training in our college, should be the only person for the compounding, supervision and distribution of all medicines.

We operate under an Act passed in 1875. You will readily apprehend that that Act urgently requires revision to bring it into line with modern practice. We have been promised this amend-ment and we hope that in the public interest the necessary legislation will not be long delayed. I am happy to acknowledge the cordial relations which have existed—and I feel sure will continue to exist - between the medical profession and ourselves, and between the dentists, veterinary sur-geons, nurses and ourselves. Distin-guished members of these professions have from time to time given us their support and skilled advice; we in turn shall always be ready to assist them to the full extent of our resources. To our many friends from the four quarters of the land I say CEAD MILE FAILTE.

Pestle and Mortar Presented

THE REGISTRAR (Mr. James G. Coleman, B.L.) called upon the architect responsible for reconstruction work (Mr. ROBERT H. DOWLING) to come forward, and Mr. Dowling presented the Minister with a gold and silver pestle and mortar on silver salver as a memento of the occasion. MISS CIARA O'SULLIVAN, young daughter of Councillor T. Brendan O'Sullivan (chairman of the official opening committee) then presented Mrs. O'Higgins with a bouquet.

A garden party followed, of which two members of the Society, Messrs. Donal Kennelly (a member of Council) and Frank Roche, made a complete cine record in colour. The film is being made available after it has been completed to the Society.

SMOKING AND CANCER

A statistical survey

AN investigation into the possibility of tobacco smoking as a cause of lung cancer is reported by the director and a member of the statistical research unit of the Medical Research Council, Professor A. B. Hill and Dr. R. Doll (British Medical Journal, 1954. 1. 1451). The authors are satisfied that the association between smoking and the disease is a real one. In October 1951 the investigators wrote to all doctors in the United Kingdom asking information on their smoking habits Since lung cancer is rare in women and in men under thirty-five years of age the present preliminary analysis of results was confined to men over thirty-five. That category was divided into groups: non-smokers, exsmokers, and regular smokers. latter were subdivided according to the amount of tobacco smoked daily. complete the investigation the operation of the Registrars-General in the United Kingdom in sending in a form showing particulars of the cause of death of any doctor registered since

October 1951 was secured.

Since the questionnaire was sent out 789 deaths of male doctors over thirty-five years of age were reported. Of those, thirty-five were certified as due to lung cancer. In a further case lung cancer was a contributing factor to the cause of death. Group death rates

were worked out. It was found that the death rate from lung cancer increased steadily from 0.00 per 1,000 in non-smokers to 1.14 per 1,000 among men who had smoked twenty-five or more gm. of tobacco daily.

A similar but less steep rise was seen in the death rate from coronary thrombosis (from 3.89 per 1,000 in nonsmokers to 5.15 in the heaviest smokers). In other disease groups (such as respiratory disease other than cancer) the changes in mortality were irregular and for the most part small.

Of the thirty-six men who had died from lung cancer twenty-five had reported themselves as cigarette smokers, four as pipe smokers and seven as smokers of both pipes and cigarettes. The authors do not consider those figures statistically significant evidence that cigarettes were more likely than a pipe to induce cancer, for numbers reported it was not possible to allow for the quantity of tobacco smoked. No attention was paid to "changes in smoking history It had been cutting down smoking). discovered that among the deaths were light smokers who had been heavy smokers. Such factors are considered as leading to an understatement of the true relationship by "inflating the mortality among light smokers and reducing that among heavy smokers.

FIGURES IN THE PHARMACEUTICAL WORLD

NOBODY who has attended a succession of conferences in London can fail to have been impressed with the positive character of the contributions by the delegation from Swansea and West Glamorgan. More specifically, they will have noted and remarked upon the forthright and lucid presentations of the Branch viewpoint by Mr. G. T. M. David, Swansea.

Mr. David is a self-confessed rebel and one-man ginger group. Though Swansea-born, he is only half Welsh. While it is certain that he would put any specifically Welsh point of view, if it existed, in any body of which he was a member, Mr. David is not a champion of nationalism but of the claims of outlying areas against excessive domination from the centre.

As the prime organiser locally of the recent successful Welsh national conference of National Pharmaceutical Union members, he may have set in train a revival of a rather different kind than those for which his country is traditionally famous. For too long the proprietor pharmacists of that country had been apathetic or inert to N.P.U. affairs, whatever their enthusiasm in activities of the Pharmaceutical Society. Since the March conference that situation is likely to be changed, yet while the new interest in N.P.U. affairs in South Wales may take on the aspect of nationalism, under Mr. David's leadership it is more likely to develop into the state of the development. likely to develop into solidarity with opposite numbers in England, for Mr. David is now the area representative on the N.P.U. Executive. Without any lessening of zeal he will be finding the judgments of himself and his constituents more and more influenced and modified by facts and tendencies hidden from him-and from them-while he was local challenger and nothing more.

Mr. David's gifts of exposition and organisation will, one may be sure, be put at the service of unity in pharmacy. Today, "United Front" is not a popular slogan in the craft. Though there are many, for example, who recognise that employee pharmacists should exercise an influence on affairs commensurate with their numbers but are in fact unorganised and ineffectual, and though there are fewer who see that the poor pay of hospital pharmacists must end by having its repercussions on the profession as a whole, few indeed are taking steps to apply any remedy. Mr. David speaks up courageously for positive moves towards unity. He advocates, for example, federation of existing pharmaceutical bodies in a joint organisation for common action, or at least to provide a forum at which varying points of view can be set alongside one another. In the matter of federation he starts as an expert, since he is the secretary of a federation of Pharmaceutical Committees. Though experienced in retail business, in which he has been engaged as partner since 1936, and though steeped in the craft through being the son of a pharmacist to whom he was apprenticed and with whom he is now in



19. Mr. G. T. M. DAVID

partnership, Mr. David is as yet hardly more than at the threshhold of his career in pharmaceutical politics. For four years until 1953 he was secretary of his local branch of the Pharmaceutical Society of Great Britain, of which he is now chairman. In 1953, he ran against and defeated Mr. Martin of Cardiff in an N.P.U. Executive election, but the victory was rather of Swansea over Cardiff than of one personal candidate over the other and the two remain firm friends. Once he was a member of the N.P.U. Executive, it was not long before his colleagues had appointed him to serve on the Chemists Federation Council. He is also now secretary of his local N.P.U. branch. It needs no special discernment to realise that he will go a long way in the service of his fellow practitioners in pharmacy.

Mr. David had a four-year appren-

Mr. David had a four-year apprenticeship after matriculating at the Swansea secondary school. His early pharmaceutical studies were at Swansea Technical College under its then principal Mr. (now Dr.) Harold Davis, but in 1932 he went to Cardiff for full-

time studies for the Chemist and Druggist Qualifying examination. He secured his qualification and returned to his father's business, where, in due course (in 1936) he was taken into partnership.

There, no doubt, he absorbed something of the pharmaceutical background of a man who, after an apprenticeship at Aberavon, qualified from the redoubtable Muter's College in London and spent eight or nine years with the former Prockter & Forth, Cheltenham, besides having other experience in London and Richmond before purchasing the old-established Swansea business of John Davies.

PROFESSOR HONOURED Outstanding work in medicine

THE assembly of the World Health Organisation, meeting in Geneva recently, awarded Professor G. Macdonald (professor of tropical medicine, University of London) the Darling foundation prize, which consists of a medal and 1,000 Swiss francs, for outstanding work on tropical medicine.

12

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Contractors' On-account Payments

ONE of the recommendations the representatives of Pharmaceutical Committees will be asked to approve when they meet in London in July is to accept proposals by the Ministry of Health for a new system of on-account payments.

The present scheme has been in operation since the start of the National Health Service. The principle behind it is that contractors should not have a greater sum owing to them by the Government than under the previous National Health Insurance system. In those days chemists were paid in full for N.H.I. prescriptions six to seven weeks after they dispensed them. When pricing delays made that system impossible, the Ministry introduced the idea of making a payment, related to what each contractor might be expected to receive, to tide him over until the full payment due to him had been calculated. The onaccount payment was then deducted from that total and the difference made up. The percentage paid at any time was adjusted according to the expected delay in pricing. Today, when all delay in pricing looks like being eliminated very soon, contractors would, on a strict interpretation of the criterion already referred to, be back at the stage of receiving the entire payment six to seven weeks after the end of the month in which the prescriptions were dispensed. Other things being equal, that would have been quite fair. But in the meantime a change has taken place in the character of the chemist's turnover. A much higher proportion is represented by dispensing. Hence a greater hardship or sacrifice is involved in waiting for the money.

That new factor the Ministry has admitted and endeavoured to meet in its offer. It recognises that the chemist would be financing the service for an average of eight weeks, and proposes, after the September prescriptions are received at the pricing offices, a lump sum payment to each contractor roughly equivalent to 50 per cent. of the average payment to him in a twelve months' period (April 1, 1953 to March 31, 1954). That payment would be made on or about October 1. On November 15 he would receive full payment for his September prescriptions, on December 15 full payment for his October prescriptions, and so on. If ever he left the service, the lump sum would be deducted from his final payment from the Ministry, or recovered in some other way.

Chemists will recognise that the Ministry has made a sincere and understanding gesture to smooth out

their difficulties. Nobody will withhold appreciation of that. The only argument could be as to the percentage figure decided upon, and each man may work out how he will stand when the change is made. Undoubtedly the Central N.H.S. (Chemist Contractors) Committee has examined how the formula will work in businesses of all types. The committee is recommending acceptance.

Hazards of Smoking

IT will be fresh in the memory that earlier this year (see C. & D., February 20, p. 197) the Standing Advisory Committee on Cancer and Radiotherapy informed the Minister of Health that there was a relationship between smoking and lung cancer. The Minister showed his concern at the findings by communicating them immediately to the public via Parliament and Press. He "thought it right" to publish the report, "neither underestimating nor overestimating" the gravity of its content, but gave a promise that research would be pursued with all vigour and speed. Some of the fruits of recent research in this field have now been published (see p. 10). Again the evidence strongly suggests that smoking plays some part in causing lung cancer.

Dr. Richard Doll and Professor A. Bradford Hill of the Medical Research Council's statistical research unit, who carried out the investigation now reported on, adopted a new approach. Previous studies, made on the smoking habits of patients with and without lung cancer, are described as "retrospective." The present study is "prospective" because it is a continuing study designed to show the frequency with which the disease appears among groups of people whose smoking habits are already known. The group dealt with in the report consisted of members of the medical profession in the United Kingdom, all of whom were sent a short questionary in 1951 asking for information on their smoking habits. Nearly 40,000 were classified into non-smoking or various smoking categories. Registrars-General inform Drs. Doll and Bradford Hill of the cause of death of every doctor. The cause is then compared with the smoking history. The present investigation, which concerns only male doctors over the age of thirty-five, confirms the findings of a previous inquiry into the smoking histories of patients with cancer of the lung and with other diseases.

The death rate from lung cancer among those who smoke 25 gm. or more of tobacco daily (1 gm. tobacco = 1 cigarette) is twice the number expected if the deaths had been distributed evenly among all categories of smokers and non-smokers.

The authors point out that the death rates of doctors reported upon are almost certainly low, there being evidence that that is due to a reluctance, or inability, of persons suffering from a fatal illness to reply to a questionary. In spite of that defect and the present small number of deaths, they thought it necessary, in view of the nature of the results, to lay the preliminary observations before the survivors of the 40,000 men and women who made them possible.

In a report in the Manchester Guardian of June 23, the main preliminary findings of a similar investigation being carried out in the United States by Dr. Cuyler Hammond (a Yale University statistician and biologist) are given as follows:—

1. After the age of fifty, cigarette smokers have almost twice as high a death rate from all causes as non-smokers.

2. The death rate from heart attacks and coronary artery disease is about half as high again among cigarette smokers as among non-smokers.

3. Heavy smokers (which the survey defines as men who smoke more than twenty cigarettes a day) have a death rate more than twice as high, between the ages of fifty and sixty-four, as that of non-smokers.

4. Five moderate smokers die of lung cancer to every one non-smoker, and fifteen or sixteen heavy smokers to every one non-smoker.

5. There is a definite "cause and effect relationship between cigarette smoking and all kinds of cancer."

6. The difference between the death rate of non-smokers and cigar or pipe smokers is so slight (about 6 per cent.) that it may be regarded as negligible or unproven.

Overseas Trade in May

UNITED Kingdom exports of medicines and pharmaceutical products during May totalled £2,909,251 bringing the total for the five months of 1954 to 13.7 millions (against 12.2 millions in the same period of 1953). Australia was the largest single market taking medicines, etc., valued at £226,660; South Africa's £184,535 was the next highest total. The value of proprietary medicines shipped overseas at £765,622 was a record for any month although it was only about £1,000 up on the March value. Exports of aspirin rose sharply to £98,876 from a monthly average of £71,000. Penicillin exports totalled £305,812 and other antibiotics, £273,329; on a daily basis these figures represent little or no change from those in April. Sulphonamides showed an improvement at £170,218 and also barbiturates at £56,947. Export values of other drugs separately classified were: - Ointments and liniments, £88,237; antipaludics, £50,490; vitamins, £187,980; alkaloids (except quinine), £58,311 and antihistamines, £34,513.

In the toilet and cosmetic field shipments of face powder, lipstick, rouge, etc., were valued at £212,121; dentifrices at £150,443 and toilet soaps at £208,671. Exports of detergents in May were a record at £297,417.

On the import side the values of vitamins at £114,856, antibiotics at £220,062 and alkaloids at £72,266 were lower than in April but proprietary medicines jumped to £43,626 (from £25,052), and the unclassified medicines to £246,074 (from £171,215). The volume of menthol imported increased during May to 16,882 lb. valued at £22,007 or the highest value since February 1953. Essential oil imports were valued at £403,306; re-exports at £40,857 and exports at £43,375.

Total United Kingdom exports in May amounted to £228.9 millions. Taking April and May together the volume was about two per cent. more than in the first quarter of the year and about one per cent. below the high rate reached in the last quarter of 1953. Imports in May totalled £280.4 millions, bringing the average for the first five months to £276.8 millions. Re-exports in May were valued at £9.0 millions, equal to the average for the first five months. The excess of imports, valued c.i.f., over exports and re-exports, valued f.o.b., in this period therefore averaged £42.4 millions.

Dispensing by Doctors

PHARMACISTS had some justification for believing that the principle of separating dispensing from prescribing under the National Health Service had found universal acceptance, and was only to be modified in areas remote from access to a pharmacist. Apparently the Committee on General Practice within the National Health Service has been under some pressure to support an alteration in that state of affairs, and it is well that the Committee has not fallen victim to the spurious argument that, because practitioners who do their own dispensing incur significantly less cost than the average cost of prescribing for the whole service, all practitioners should be encouraged to do their own dispensing.

The economic arguments against such a change of policy are dealt with in the Committee's report (p. 9). Quickly summarised, they amount to the fact that a dispensing doctor has neither the stock nor the time necessary to provide a comprehensive pharmaceutical service such as is given by chemist contractors. But the principal considerations are not economic. Unquestionably the separation of dispensing from prescribing was one of the most noteworthy and commendable advances established by the National Health Service Act. Any weakening of the principle would be against public welfare and would and should be strongly resisted.

Another pharmaceutical matter with which the Committee concerned itself was the drugs stocked by medical practitioners and the machinery for obtaining them. The report comes out in favour of a scheme to use a modified EC10 form to enable doctors to obtain stocks of drugs for use in their own surgeries.

To the extent that a scheme of that kind would facilitate the supply to doctors of drugs required for emergency treatment of patients in their surgeries it may have something to commend it. But the Committee, as it shows only too clearly, is not advocating the scheme for any such reason. Its opinion is:—

Although the Committee realise that a scheme of this kind might be open to abuse, it believes that in general it would lead to economy in prescribing.

It is the same old wolf in innocent lambskin; a short-circuiting of the pharmacist as the dispenser of medicines. The chemists' representatives will be wise to have no truck with it. The Committee, too, should realise that its scheme could have the effect of stocking out the doctor at the taxpayer's expense. The chemist has to bear his own financial burden of keeping stock.

CORRESPONDENCE

BEST BOXES OF 1953-54

SIR,-The rigid box and carton industry of Great Britain, represented by the British Paper Box Federation and the British Carton Association, is again organising a contest to decide the best boxes produced under several sections and classifications (based principally on the lines of the 1953 contest). We are again encouraging the support and interest of all members, art students and industrial artists, and entries for the competition will be required during the period October 1-30. Judging will take place in November, and within the limits of space we are hoping to exhibit all the entries at the National Packaging Exhibition, Olympia, London, in January 1955. It is hoped that the project will receive even greater support this year than it did on the last occasion, the results of which encourage us to proceed with confidence in 1954. L. BLULEY, Competition Secretary LONDON, W.C.2

APPRECIATION

BRITISH PAPER BOX FEDERATION

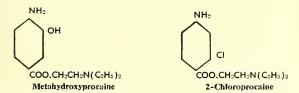
MY copy of THE CHEMIST AND DRUGGIST for June 26 has come to hand this morning and I would like to congratulate you. It is a splendid bit of work in every way. In layout, printing, articles and general finish it is about the best bit of work done so far by you.—D. F. O'H.

Two Anæsthetic Derivatives of PROCAINE

By Peter Cooper, F.P.S., F C.S.

Thas long been recognised that local anæsthetic agents are generally more effective in neutral and alkaline than in acid solution. With procaine, stable injections of the hydrochloride are inevitably very acid, and attempts have therefore been made to solubilise procaine base with weak boric-acid or carbon-dioxide solutions, in order to intensify and prolong its activity. Krantz and colleagues (Anesthesiology, 1951. 12. 57) have made a new approach to the problem by introducing a hydroxyl group into the aminobenzoate nucleus of procaine. This imparts a phenolic character to the compound, which is therefore soluble in alkalis.

METAHYDROXYPROCAINE is diethylaminoethyl-3-hydroxy-4aminobenzoate and has the chemical structure



It has been synthesised as the hydrochloride, a yellowish-white crystalline compound which darkens, as do most phenols, on exposure to air. An injectable form of the sodium salt was made by Kranz and colleagues by dissolving 2 gm. of the salt in 14 mils of 0·1N sodium hydroxide and adjusting to 100 mils with 0·5 per cent. sodium bicarbonate solution. The pH of the solution was 7·8; it probably consisted of a mixture of free base and sodium salt.

Comparison with Procaine

Pharmacological comparison of that solution with a 2 per cent, injection of procaine hydrochloride revealed that as a surface anæsthetic the metahydroxy compound was about ten times as effective as procaine, using the frog's foot, and twice as effective using the rabbit's cornea. Metahydroxyprocaine produced a slightly longer sciatic nerve block in the guinea pig, while there was little difference between it and procaine in the nerve block of anæsthetised dogs. Intradermal wheal tests in human volunteers were similar in results for both compounds, and the 4 per cent. solutions injected intrathecally to produce spinal analgesia in dogs demonstrated onset and duration of about the same magnitude. The intravenous toxicity in rabbits is significantly less with metahydroxyprocaine, while in dogs the compound causes less respiratory depression and relatively few evidences of vasomotor disturbance. In rats and mice, both drugs have a comparable intraperitoneal toxicity; lethal doses, however, produce respiratory failure more rapidly when metahydroxyprocaine is used.

2-CHLOROPROCAINE is diethylaminoethyl-2-chloro-4-aminobenzoate, with the structure shown above (right of column). The hydrochloride is a white, amorphous powder melting at 174°. Its solubility is less than that of procaine hydrochloride, but it forms salts with alkali metals, which are more readily soluble. A 5 per cent. aqueous solution of the hydrochloride represents the maximum stable concentration. A 2 per cent. solution has a pH of about 4·8, and may be kept at room temperature for several months without decomposition.

In vitro studies of the compound by Aven and Foldes (Science, 1951, 114, 206-08) indicate that it is hydrolysed

four times as rapidly as procaine by plasma esterase. Hydrolysis is inhibited by certain compounds of the neostigmine type in dilutions as low as one in 20 million. On the rabbit cornea, a 1 per cent, solution produces complete anæsthesia for at least twenty minutes. Chloro-procaine is less bacteriostatic than procaine in the same concentration; solutions as dilute as 0·2 mgm. per mil have a markedly bacteriostatic effect on cultures of *Acrobacter aerogenes* and *Escherichia coli*.

Wheal tests on the skin of human subjects have shown a more durable analgesia with chloroprocaine than with procaine, unless a vasoconstructor be added, when the difference is negligible. With plain solutions the difference in effect decreases with the concentrations used. Clinical results have been reported by Foldes and McNall (Anesthesiology, 1952. 13. 287-96), who employed as much as 40 mils of 2 per cent. solution for regional nerve block; the onset is rapid, and the penetration apparently greater than that of procaine. The addition of 0.0005 per cent. of adrenaline greatly increases the duration of anæsthesia. For dental blocks, 2 mils of 2 per cent. solution produce immediate onset, completed within three minutes and wearing off (without adrenaline) in twenty minutes; reactions are notably absent, though nervousness and sweating have been reported. For spinal anæsthesia, Foldes and McNall used a solution of 100 mgm, chloroprocaine in 3 mils of 10 per cent. dextrose, or alternatively 100 mgm. in 2.4 mils of 10 per cent. dextrose, plus 0.6 mil of injection of adrenaline. Both solutions are hyperbaric, An injection of 100 mgm, of the drug subarachnoidally is sufficient for immediate onset of action and a rapid rise in spinal anæsthesia; when that was accidentally allowed to reach the cervical segments, no respiratory embarrassment was observed. No complications beyond those regularly met with post-operatively have been encountered; the incidence of post-operative headache is 5 per cent.

Chloroprocaine has recently been introduced into penicillin depôt-therapy in place of procaine. (New and Nonofficial Remedies, 1953. 152. 1339) Chloroprocaine penicillin-O is a crystalline insoluble salt of 2-chloroprocaine and allylmercapto-methylpenicillin. When a suspension is injected intramuscularly, it produces comparable blood levels of penicillin to those resulting from the use of procaine penicillin, and they persist for twenty-four hours instead of eighteen hours for the older product. Aqueous suspensions may be kept at room temperature for up to twenty-one days without loss of potency. It is claimed that the incidence of sensitisation to the compound is somewhat less than that associated with procaine penicillin.

RECENT RESEARCH

OXYGEN DEMANDS OF DIABETICS

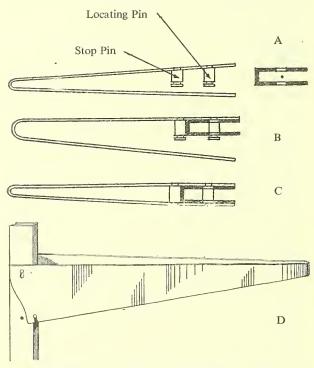
A DIFFERENCE in the oxygen consumption of normal and diabetic muscle in the presence of insulin has been noted by Hall (Science, 1954, 1, 813). Biopsy samples of normal and diabetic muscle were removed from rabbits under Dial anæsthesia, and placed in Krebs Ringer phosphate in a refrigerator for one and a half to two hours to ensure a resting metabolic rate. Their oxygen consumption was then measured under four conditions:—Control of Krebs Ringer phosphate; insulin; sodium citrate; and insulin and citrate combined. Results showed that while the oxygen consumption of normal rabbit muscle is not increased by insulin, that of diabetic rabbit muscle is increased to an extent of over 60 per cent.

SHELF BRACKETS WITHOUT SCREWS

By a Shopfitting Correspondent

NEW system of adjustable bars and brackets for shop windows has the outstanding advantage over long-known systems of this kind of shelf-support (still in wide use) that it obviates the use of screws or loose pins.

The hollow, three-sided vertical bars have holes at $1\frac{1}{2}$ -in. intervals and the hairpin-shaped brackets have two lugs (known, respectively, as locating pin and stop pin) on one arm, and two key-hole shaped slots on the other. The bracket is fitted in position by pushing the locating pin into



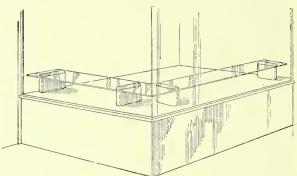
Views in plan of hairpin-shaped bracket with two fixing pins indicated by arrows (A); B: bracket partly attached; and C: fully fixed; D: side view of position on slotted bar.

a hole appropriate to the fixing height of the shelf and lodging the fixing pin against the front edge of the vertical bar. The other (slotted) arm of the bracket is then pressed against the bar so that the heads of the two pins engage with the slots. The bracket is then locked in a rigid position by pressing it downwards. Removal is easily effected by pushing the back of the bracket upwards and pulling the two arms away from the respective sides of the vertical bar.

Obtainable in any length to suit the length of the window, the bars are made in two sizes: $1\frac{1}{4} \times \frac{3}{8}$ in., and $\frac{3}{4} \times \frac{3}{8}$ in. The brackets are obtainable in seven lengths with 2-inch intervals from 8 in. to 20 in. Supplied in stainless steel, brass, bronze, aluminium, or enamelled steel, they can, if necessary, be fitted with flanges to give extra support for longer, thicker, or more heavily loaded shelves. The suppliers are Cookes (Finsbury), Ltd.

Display of Small Items

For the chemist who wishes to make a more attractive or more easily seen display of small items in his window, while leaving the remaining space free for occupation by normally massed merchandise or a specialised display, the method shown in the second illustration is recommended. It

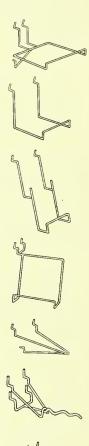


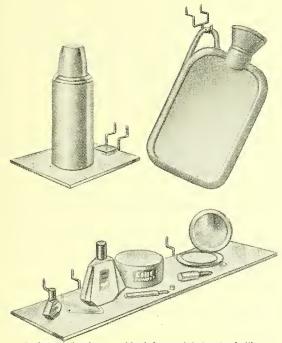
Above: Glass shelves on elliptical blocks for showing small items near plate glass of window. Right: Clips for use with pegboard.

consists of ordinary plate-glass shelves (\frac{1}{4}\) in. thick, 12 in. wide) supported on elliptical-shaped blocks of polished wood, faced with felt at top and bottom. Well-finished blocks of this shape give tone to the window, though it is, of course, possible to apply the principle with cube-shaped blocks of plain wood covered with (for example) crêpe paper. The drawing is reproduced by courtesy of Cookes (Finsbury), Ltd.

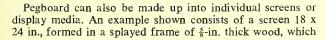
Perforated board, originally introduced for the improvement of acoustic conditions in auditoria, was some years ago brought into use for display, in conjunction with pegs that could be pushed into the holes for the support or suspension of merchandise (hence the now commonly-used term pegboard). Its adoption for this purpose proved so successful that several varieties of hardboard and also of compressed fibreboard are now being supplied in perforated form for use as display settings. They can be obtained in sheets of standard size and thickness (mostly 6 x 4 ft.).

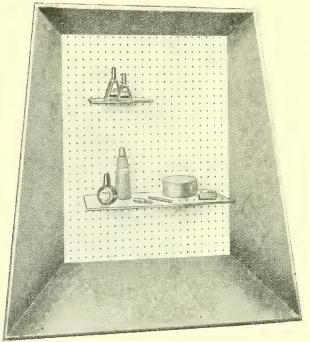
For use with these perforated boards one shopfitter has produced a varied collection of wire brackets. Ten suitable for use on screens or backgrounds in the chemist's window (or for that matter, on perforated panels inside the shop) are shown here. Also shown are three examples of their use. In order from the left to right, the small sketches represent a metal holder (6 x 6 in.) for showing a flat boxed article, a bracket for a similar but slightly smaller item, a two-tier bracket for showing two items slightly tilted, a left- or right-hand display easel, a heavy-duty bracket to carry glass shelves (two are seen in use in one of the examples), a bracket for suspending a number of items (available with or wi hout locking action), a clip for a glass shelf (also shown in use with vacuum flask), a swivel-clip for showing tooth-brushes or similar items, a clip for cards, a hook on which suitable items can be hung in use.





Pegboard clips in use with shelves and hot-water bottle.





Pegboard made into screen for special display.

can be either polished or sprayed in any suitable colour. The illustrations of pegboard attachments are reproduced by courtesy of Fredk. Sage (Display Fittings), Ltd.

SHARE MOVEMENTS April to June

BY A FINANCIAL CORRESPONDENT

USINESS in the industrial sections of the London Stock Exchange during the second quarter of 1954 was on an even larger scale than during the first quarter, with most prices moving to higher levels. The few reactions to, and the period of hesitancy that took place as a result of, domestic and foreign political uncertainties had only a temporary effect. Drug-trade-company ordinary shares followed the general trend, and in a number of instances reached new record levels. Beecham Group 2s. 6d. deferred closed about 5s. 6d. higher at 20s. 7½d., after having reached 21s. A regular business was done in Boots Pure Drug 5s. ordinary, which closed nearly 2s. higher at the record level of 26s. $1\frac{1}{2}$ d. Aspro 5s. ordinary were priced 4s. or so better at 18s. 6d., with shares dealt in on most business days. Albright & Wilson 5s. ordinary were valued 4s. 3d. higher at 25s.; since early January they have appreciated by approximately 6s. Firmness was evident in Smith & Nephew and Associated Companies 4s. ordinary, which closed 6s. higher at 28s. 9d. Timothy Whites & Taylors 5s. ordinary closed about 5s. 6d. higher at 28s. $4\frac{1}{2}$ d., and Yardley & Co. 4s. ordinary were 4s. higher at 34s. 9d. Monsanto Chemicals 5s. ordinary finished about 3s. 6d. better at 27s. 4½d., after reaching 28s. Southalls (Birmingham) 5s. ordinary were unaltered, at 25s., though they were transferred down to 23s, during the period. Barclay & Sons £1 ordinary were also unaltered at 30s., though it is doubtful whether that valuation was adequately tested. Borax Consolidated £1 deferred finished about 6s. better at 53s., the gain being spread evenly over the past three months. The British Drug Houses 5s. ordinary finished 1s. 3d. down at 9s. 3d., thus losing the 2s. gain recorded in the first quarter. Dufay 2s. shares were priced threepence-halfpenny lower.

In the preference share section, further gains were recorded in Beecham McLean Holdings £1 4 per cent., which closed one shilling higher at 17s. 3d. Savory & Moore £1 5½ per cent. closed sixpence higher, at 19s. 7½d.

Name of Company	19			
£1 units unless otherwise stated	Нісн	Low	LATEST	
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cum. pref	$\begin{array}{c} 17 & 3 \\ 26 & 1\frac{1}{2} \\ 24 & 6 \\ 28 & 1\frac{1}{2} \\ 53 & 0 \\ 11 & 6 \\ 1 & 1\frac{1}{2} \\ 2 & 6 \\ 52 & 10\frac{1}{2} \\ 22 & 4\frac{1}{2} \\ 17 & 0 \\ 15 & 7\frac{1}{2} \\ 28 & 0 \\ 39 & 3 \\ 19 & 9 \\ \end{array}$	$\begin{array}{c} 15 & 3 \\ 222 & 9 \\ 23 & 20 \\ 37 & 3 \\ 1 & 3 \\ 5 & 1\frac{1}{2} \\ 33 & 6 \\ 14 & 6 \\ 12 & 43 \\ 9 & 6 \\ 21 & 6 \\ 33 & 6 \\ 18 & 6 \\ \end{array}$	17 3 26 1½ 24 3 28 1½ 53 0 9 1 3½ 8 6 2 4½ 13 3 16 6 2 7½ 113 3 16 7 27 4½ 17 4½ 19 7 19 19 19	
Savory & Moore $5\frac{1}{2}\%$ red. cum. pref. Smith & Nephew and Associated Companies, 4s	29 1½	21 3	28 9	
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Taylors (Cash Chemists), London, 6% cum. pref Taylors (Cash Chemists) Trust, 6%	23 1½	20 6	22 l ¹ / ₂	
Taylors (Cash Chemists) Trust, 6% cum. pref	23 3 3 0 29 6 29 6 26 3 35 3 34 9 18 3	20 9 2 0 21 3 27 0 19 4½ 28 6 27 6 17 9	22 1½ 2 7½ 2 7½ 28 4½ 29 0 19 4½ 34 9 34 9 18 1½	

ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

23. DISEASES OF THE EYE

HE eye is one of the most important organs of sense. Quite apart from the loss of enjoyment of life which ocular defects may cause, defective vision can be a serious economic loss to the sufferer. The average layman has many misconceptions about the eyes. It is probably fair to say that the average man considers that the essential test, so far as all diseases of the eyes are concerned, is the ability to read the letters in the usual Snellen's test. In many ways, that faith is a blessing, but it is unfortunate that in some cases it encourages the patient to ignore, or regard as trivial, conditions which could and should be treated.

Before discussing the various diseases of the eye it is necessary to understand what is meant by good vision and the structure of the eye. When these facts are appreciated it can be seen how damage to the various parts of the eye can affect vision. Most pharmacists are acquainted with the anatomy of the eye in broad detail, and will appreciate the similarity between the eyeball and a photographic camera.

Structure Of Eyeball

The eyeball is a spheroidal structure which, when viewed in section along the antero-posterior axis, is seen to consist of two chambers, the anterior and posterior. The former is comparatively small and consists of the most anterior part of the eye, having at its posterior portion the iris and lens and anteriorly the transparent cornea. The anterior chamber is filled with a watery fluid known as the aqueous humour, while the posterior chamber contains a transparent jelly known as the vitreous humour. Except for the cornea, the wall of the eye is made up of a tough white tissue, known as the sclera. The sclera in conjunction with the contents of the two chambers maintains the shape of the eye. The innermost layer of the posterior chamber is the retina, and between the retina and the sclera are tissues collectively known as the uvea. The most important part of the uvea is the choroid, which is made up of connective tissue, pigment cells and a dense network of blood vessels, which supply blood to the innermost portions of the eye. The retina is a transparent structure, which, although less than 1/50 in, thick, has no less than eight layers. It is highly complex in structure, but is composed largely of nervous elements. It has been described aptly as part of the brain contained within the eye, and it has, in fact, the same embryonic origin as the cortical cells of the brain. The sensory elements of the retina consist of cells known as rods and cones, there being roughly 130 millions of the former and about 7 millions of the latter. Centrally at the back of the eye there is a depression in the retina, caused by the displacement of some of its layers so that the one containing the actual visual cells is nearest the light. The cells here are all of the cone type and the arca is known as the fovea. Surrounding the fovea is the macula, which also has a high concentration of cone cells. The fovea is situated where the visual axis or line of sight meets the retina, and it is there that the clearest and keenest vision is required. In that area each cone cell has a single nerve fibre attached, which enters the optic nerve and so travels to the brain. Passing to the more peripheral

areas of the retina the concentration of cone cells becomes less and the ratio of rods to cones increases. Furthermore, each cell ceases to have a single nerve fibre, one fibre serving several cells. Visual acuity thus diminishes. The peripheral lining walls of the eyeball away from the fovea are dark in colour to prevent the internal reflection of light. The inner walls of a camera are similarly dark to prevent the internal reflection of light.

The Iris And Lens

The iris is really part of the uvea and consists of pigment cells and muscle fibres to form an opaque annular curtain in front of the lens. By contracting or relaxing the muscles the size of the aperture of the iris can be varied. Posterior to the origin of the iris the choroid coat thickens to form the ciliary body, which extends round the interior of the eye behind the junction of the cornea with the sclera. At the forward end of the ciliary body are the ciliary muscles, which are composed of fibres running meridionally and circularly so as to form an elastic ring encircling the ciliary body. The inner surface of the ciliary body has a number of ridges arranged in a meridional direction. These ridges are known as the ciliary processes, and from the valleys between them numerous fibres or ligaments radiate to a membranous capsule enclosing the lens, which is thus suspended behind the iris.

The lens itself is a biconvex structure flatter anteriorly than posteriorly and is composed of many layers of transparent tissue. Up till middle age it is plastic and mouldable and by the action of the ciliary muscles, the tension of the ligaments can be varied and thus the shape and convexity of the lens can be altered.

The above descriptions give in broad outline the anatomical structure of the eye, but much more is concerned with the actual perception of sight. The eye is merely the receiving organ and such stimuli as it receives have to be correlated and interpreted in the occipital cortex situated posteriorly in the skull. The nerve fibres from the retina combine to form the optic nerve and that nerve, together with its opposite number forms the optic chiasma, which is a cross-like structure underneath the brain. From there go the fibres of optic radiation to the occipital cortex and also fibres to the third, fourth and sixth cranial nerves. The reason for connection with these cranial nerves is their association with the external muscles of the eye, which control the movements of the eyeball and also their connection with the ciliary muscles and the iris.

To see an object, therefore, requires careful and intricate co-ordination of muscles and nervous impulses. First, the external muscles of both eyes must be co-ordinated so that each eye is fixed exactly on the object. Secondly the iris and lenses of both eyes must be similarly co-ordinated and thirdly there must be no neurological lesion to interrupt the passage of the impulses through the brain. When discussing the visual field, i.e., the area that can be viewed by a person, it is customary to refer to nasal and temporal fields. As might be expected, the temporal fields are the more lateral aspects and the nasal fields are more central. The outer half of the right eye will see objects in the left

nasal field, while the inner half of the eye will see objects in the right temporal field. The outer half of the left eye will see objects in the right nasal field and the inner half of the eye will see objects in the left temporal field. When the fibres reach the optic chiasma the fibres appreciating objects from the right temporal and left nasal fields go to the left side of the brain, while those concerned with the left temporal and right nasal fields go to the right side. Total blindness in one eye can be produced by severing the optic nerve of that eye. If, however, one optic tract is severed after the fibres have crossed in the chiasma, the result will be that each eye is blind in one field, the blind field in one eye being the opposite to that affected in the other eye. This condition is known as homonymous hemianopea. It is not the object of this discussion to provide an exercise in neurology, but one example has been given of a neurological lesion quite removed from the eyeball, which can cause defective vision. Many others could be quoted; in fact ocular disturbances are one of the most common signs of organic nervous disease.

Position Summarised

Summarising the position so far; complete vision depends upon a number of factors. The pupil of the iris must react to the intensity of light so that the aperture can be varied. The ciliary muscles must function and the lens must be sufficiently mouldable to be able to provide a lens of correct focal length to form an image on the retina. The retina must be intact, and so must the various nerve paths, so that normal fields of vision exist. Finally the external muscles of both eyes must be able to coordinate with each other to provide a single image.

In a series of articles such as the Essentials of Treatment, it is not possible to enter into great detail, and one must be content with broad outlines. Looking at the structure of the eye, however, one can appreciate that blindness can result from a number of causes. Opacity of the lens or the cornea, damage to the retina or damage to the nerves are some causes that eome to mind immediately. Often, however, those "causes" are in fact the end-result of some other condition, and without a full medical examination it is not always possible to diagnose the fundamental cause. Blurring of vision is one of the commonest original symptoms suffered by a diabetic. Once the condition is under control, it tends to disappear. The next article will deal with conditions more local to the eyeball. The lesson to be learnt from this article is a better appreciation of the numerous conditions, ranging from a neurological disease such as disseminated sclerosis to a glandular upset such as diabetes, from an arterial thrombosis in the retina as a result of a high blood pressure or kidney disease, to an optic nerve atrophy as a result of the ingestion of some toxin, all of which may have their initial onset in defective vision.

MEDICAL ABSTRACTS

ISONIAZID IN TUBERCULOUS MENINGITIS

WITHOUT having eliminated the need for intrathecal streptomycin in treating tuberculous meningitis, isoniazid is considered by Lorber (*Lancet*, 1954. 1. 1149) to be a valuable addition to other drugs used against the condition. His observations were made in the course of a controlled trial carried out on twenty-two patients, divided into ten controls and ten treated with isoniazid. Patients in the isoniazid group required fewer intrathecal injections of streptomycin. Their cerebro-spinal fluid approached normal more rapidly.

ARSENAMIDE AGAINST FILARIASIS

In an investigation on thirty-two patients McFadzean and Hawking (British Medical Journal, 1954. 1, 956) found that arsenamide in ten to twelve doses of 1-2 mgm, per lb. of weight was effective against filariasis due Wuchereria bancrofti but that the danger of producing necrosis of the liver was a contraindication to its use except under special conditions. Patients should be treated with doses less than 0.6 mgm. per kilo body weight in hospital under strict medical supervision and the protein content of the diet should be increased to fortify the liver from three days before commencing treatment until three days after ceasing it. In the trial the drug removed most of the organisms from the blood within two weeks after the first dose and all but two of the patients were free six months later. In two cases jaundice developed about a month after treatment and one patient developed fatal necrosis of the liver after only three injections. Other toxic effects included vomiting, dizziness, headache and loss of weight.

EFFECTS OF AND REACTIONS TO PLACEBOS

EVIDENCE that, in preliminary trials of new remedies, some effects attributed to the drug may be, in fact, due to place-bos administered with it is presented by Wolf and Pinsky (Journal of the American Medical Association, 1954. 2. 339). When a manufacturer of a brand of mephenesin requested a critical evaluation of reports that the drug exerted a specific effect on subjective anxiety and tension the trial was undertaken. Batches of pills, all of a similar appearance, some containing mephenesin 0.5 gm., and some containing lactose were prepared. The patients (thirty-one in number) were told that they were being given a medicine to allay anxiety and relieve muscle pains. Each was given a supply of pills and asked to take two four times a day. Neither the patients nor the persons issuing the pills knew which kind was given: the controllers of the trial knew.

Each patient acted as his own control by taking some of each batch in the course of the investigation. After six weeks the dose was doubled for a further two weeks to ensure that adequate amounts were administered to obtain an effect. The findings were uniform, 20-30 per cent. of all patients (who represented a variety of disorders) were better while taking pills, 50-70 per cent, were unchanged and 10-20 per cent, were worse, irrespective of which pill they were receiving. Many patients had minor complaints such as lightheadedness and drowsiness while taking the pills. There was no clear-cut predominance of those symptoms with either preparation. Major reactions occurred in three cases. One had sudden weakness, palpitation and nausea within fifteen minutes of taking either kind of pill. One developed a diffuse rash after ten days of taking the placebos. A third patient suffered from epigastric pain, watery diarrhœa and œdema of the lips on taking either preparation.

A PHARMACIST'S ANTHOLOGY

"That is most too dry a head," she added presently, a little out of breath. "There! I can tell you there's win'rows o' young doctors, bilin' over with book-larnin', that is truly ignorant of what to do for the sick, or how to p'int out those paths that well people foller towards sickness. Book-fools I call 'em, them young men, an' some on 'em never'll live to know much better, if they git to Methuselahs. In my time every middle-aged woman who had brought up a family had some proper ideas of dealin' with complaints. I won't say but there were some fools amongst them, but I'd rather take my chances, unless they'd forsook herbs and gone to dealin' with patent

"Do you think it did much good when everybody brewed a cracked quart mug of herb-tea?" I asked, walking away

on my knees to a new mullein.

"I've always lifted my voice against the practice, far's I could," declared Mrs. Goodsoe; "an' I won't deal out none o' the herbs I save for no such nonsence. There was three houses along our road-I call no names where you couldn't go into the livin' room without findin' a mess o' herb-tea drorin' on the stove or side o' the fire-place, winter or summer, sick or well. One was thoroughwut, one would be camomile, and the other, like as not, yellow dock; but they all used to put in a little new rum to git out the goodness, or keep it from spilin'."—(From "The Courting of Sister Wisby, by Sarah Orne Jewett).

AMERICAN APPROVED REMEDIES

Preparations accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Nonofficial Remedies":—

DASEROL.—Brand of mephenesin issued by the Evron Co., Chicago, as 0-25- and 0-5-mgm. tablets,

PHENURONE. — Brand of phenacemide issued by Abbott Laboratories, North Chicago, as 0.3-gm. tablets.

O'3-gm. tablets.

TOLAZOLINE HYDROCHLORIDE.—2-Benzyl2-imidazoline hydrochloride, a potent adrenolytic, sympatholytic and vasodilator drug.
Chiefly effective for increasing blood flow in
peripheral vascular disorders in which vasospasm is a prominent factor. When it is administered orally maximum vasodilation occurs
in forty-five minutes; intramuscularly, in thirty
to sixty minutes, Usual initial oral dose
25 mgm, four to six times a day may be increased gradually to achieve the desired response; usual parenteral dose, 25-75 mgm.
four times a day. Ciba Pharmaceutical Products, Inc., Summit, N.J., issue clixir Priscoline hydrochloride, 473-c.c. bottles of a
flavoured preparation containing 6-25 mgm.
of tolazoline hydrochloride per c.c.; a solution
(25 mgm, per c.c. preserved with 0-5 per cent.
chlorbutanol); and 25-mgm, tablets.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietaries:—

ASPICORBIN.—Each tablet contains 0.05 gm. ascorbic acid, 0.01 gm. quinine dihydrochloride and 0.1 gm. each of aspirin and phenacetin. Bayer, Leverkusen (Dtsch. Apotheker Ztg., April 8).

FEMANDREN M.—Each 1-c.c. ampoule contains an aqueous solution of 2-5 mgm, cestradiol monobenzoate plus 50 mgm, testosteroneiso-butyrate in microcrystalline form. Designed for depôt therapy in serious climacteric disturbances. Ciba, A.G., Wehr-Baden (Disch. Apotheker Zig., April 8).

LEUCOVORIN. — Formyl-tetrahydropteroyl-glu-

LEUCOVORIN, — Formyl-tetrahydropteroyl-glutaminic acid (physiologically active form of folic acid), Ampoule of 3 mgm, in I c.c. for intramuscular usc. Lederle G.m.b.H., Munich, and Chemie Grünenthal G.m.b.H., Stolberg-Rheinland (Dtsch. Apotheker Ztg., April 8).

NIRASON.—Each sugar-coated tablet contains: 0-075 gm. diethylaminoethanol-theophylline and 0-02 gm. phenlyethylbarbituric acid. Indicated in all forms of hypertonia, arteriosclerosis, angina pectoris, cardiae ncurosis, peripheral respiratory disorders, bronchial asthma, migraine, etc. Ravensberg, G.m.b.H., Konstanz (Dtsch. Apotheker Ztg., April 8).

PERMALON.—Each ampoule contains sodium salt of salicylic acid, 2 gm, and copper complex 2·5 mgm. Indications: Articular rheumatism, neuritis, neuralgia, polyarthritis, etc. Dosage: Adults, 20 c.c. (1 ampoule) daily for one or two weeks; to be injected slowly. Packs of three, six and twenty ampoules. Chemische Werke Albert, Wiesbaden-Bicbrich (Arzneimittel Forschung, March).

STROPHINOS.—Each c.c. contains g-strophanthin, 12 mgm. in an excipient suitable for sublingual absorption: 1 drop contains equivalent of 0.25 mgm, anhydrous strophanthin, Dosage: 3-5 drops sublingually, one to three times daily. Drop-bottle containing 60 mgm, g-strophanthin (sufficient for three to five weeks), Hospital pack of 100 c.c. Chemisch-Technische Gesellschaft, G.m.b.H., München-Pasing (Arzneimittel Forschung, March).

VIGORSAN.—Tablets each containing 1,000 i.u. vitamin D₂ in colloidal water-soluble milk protein compound. - Dosage: Prophylaxis against rickets, three tablets daily in normal food for one month. Therapy, five tablets daily. Packs of thirty and 100 tablets, Chemische Werke Albert, Wiesbaden-Biebrich (Arzneimittel Forschung, March).

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

KAOPECTATE

Manufacturer: Upjohn of England, Ltd., 4 Aldford Street, Park Lane, London, W.1.

DESCRIPTION: Each fluid ounce contains kaolin, gr. 90; pectin, gr. 2; bentonite, gr. 9 in an aromatic and carminative vehicle.

INDICATIONS: Diarrhœa,

Dosage: Adults, 2 or more tablespoonfuls after each bowel movement; children, proportionately less according to age.

How Supplied: In bottle of 10 fl. oz.

FIRST ISSUED: May 1954.

PAMINE bromide

MANUFACTURER: Upjohn of England, Ltd., 4 Aldford Street, Park Lane, London, W.1.

DESCRIPTION: Tablets each containing 2.5 mgm. of methscopolamine bromide (epoxytropine tropate bromide).

INDICATIONS: Peptic ulcer and related gastric disorders.

DOSAGE: Adults, one tablet three times daily half an hour before meals and 1-2 tablets at night; or according to needs of patient.

How Supplied: In bottle of 100 tablets.

FIRST ISSUED: May 1954.

REFERENCES: Kirsner and Palmer, J. Amer. med. Asso., 1953, 151.798.

ILOTYCIN pædiatric suspension

MANUFACTURER: Eli Lilly & Co., Ltd., Basingstoke, Hants.

DESCRIPTION: Dry flavoured granules of Ilotycin brand erythromycin, for oral suspension.

How Supplied: In 60-c.c. bottle containing granules to which water is added to make total volume of 60 c.c. The resulting suspension contains 100 mgm. in 5 c.c. and keeps for two weeks at room temperature without appreciable loss of potency.

INDICATIONS: Streptococcal sore throat, pneumonia, tonsillitis, scarlet fever, wound infections, upper respiratory infections and diphtheria in children.

DOSAGE: 50 mgm. (half a large teaspoonful of liquid) per stone of body weight every six or eight hours.

FIRST ISSUED: April 1954.

BIOFERGATE B Tablets

Manufacturer: Biorex Laboratorics, Ltd., 47 Exmouth Street, Rosebery Avenue, London, E.C.1.

DESCRIPTION: Sugar-coated red tablets each containing: Ferrous gluconate, N.F. (U.S.A.), gr. 5; aneurine hydrochloride, B.P., 1 mgm.

INDICATIONS: As for Biofergate B elixir (q.v.).

DOSAGE: One to two tablets three times daily, or as directed by the physician. How Supplied: In pack of 250 and dispensing pack of 1,000.

FIRST ISSUED: February 1954.

BIOFERGATE B Elixir

MANUFACTURER: Biorex Laboratorics, Ltd., 47 Exmouth Street, Rosebery Avenue, London, E.C.1.

Description: A pleasantly flavoured elixir each teaspoonful of which contains: Ferrous gluconate, N.F. (U.S.A.), 0.3 gm.; aneurine hydrochloride, B.P., 1 mgm.; riboflavine, B.P., 1 mgm.; nicotinamide, B.P., 10 mgm.; and traces of copper and manganese.

INDICATIONS: Iron-deficiency anæmias, secondary and microcytic hypochromic anæmias, nervous debility, post-operative recovery where there is a lowering in the red cell count and hæmoglobin.

DOSAGE: 1-2 teaspoonfuls three times daily, or as directed by the physician.

HOW SUPPLIED: In 8-fl. oz. bottle and 80-fl. oz. dispensing pack.

First Issued: February 1954.

PRADUCIL

MANUFACTURER: Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

DESCRIPTION: Sugar-Prescoted tablets each containing 200,000 i.u. penicillin.

Use: Oral penicillin therapy. How SUPPLIED: In tube of 10. FIRST ISSUED: February 1954.

CORYZOMED

Manufacturer: Medo-Chemicals, Ltd., 178 Pentonville Road, London, N.1.

DESCRIPTION: Pink tablets each containing codeine phosphate, papaverine hydrochloride and phenolphthalein, of each gr. 1/4.

USES: To allay the symptoms and shorten the duration of the common cold and influenza.

Dosage: Adults, 2 thrice daily after meals. Children, 1-3 tablets daily according to age.

How Supplied: In packs of twenty-five, 100 and 250 tablets.

FIRST ISSUED: January 1954.

REFERENCE: Diehl, J. Amer. med. Ass., 1933. 101. 2042.

MARZINE

MANUFACTURER: Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1. DESCRIPTION: Compressed products (scored for division) of 50 mgm. of cyclizine hydrochloride (1-benzhydryl-4-methylpiperazine monohydrochloride).

INDICATIONS: Motion sickness, nausea and vomiting of pregnancy, vertigo and labyrinthine disorders due to Ménière's syndrome and other causes.

DOSAGE: Adults, 50 mgm, three times a day. Children, 25 mgm, three times a

How SUPPLIED: In tube of ten and bottle of 100.

FIRST ISSUED: May 1954.

REFERENCES: Chinn et al, Amer.J.Med., 1952.12.433. Chinn et al, J.Pharmacol, 1953.69.108. Castillo et al J.Pharmacol, 1949.388.96.

HYPERTENSAN

MANUFACTURER: Medo-Chemicals, Ltd., 178 Pentonville Road, London, N.1. DESCRIPTION: Brown tablets each containing 50 mgm. selected rauwolfia, B.P.C. INDICATIONS: Relatively mild, labile cases of hypertension. In severe cases it can and should be used together with other preparations. Usually enables the physician to reduce the dose of the other drug and thereby make the treat-

ment more comfortable for the patient. DOSAGE: 2-3 tablets twice daily morning and night. If blood pressure has not been reduced after a week the dose should be increased to three tablets three times daily. Maintenance dose, 1-3 daily.

How Supplied: In packs of twenty-five, 100 and 250 tablets.

FIRST ISSUED: January 1954.

REFERENCES: Wallis and Rohatgi, J. Pharm. Pharmacol., 1949. 1, 292, Wilkins, Ann. int. Med., 1952. 37. 1144. Vakil, Brit. Heart J., 1949. 11. 350.

LARGACTIL

Manufacturer: May & Baker, Ltd., Dagenham, Essex.

FORMULA: 3-chloro-10-(3'-dimethylamino-n-propyl)phenothiazine hydrochloride.

INDICATIONS: Adjuvant before, during and after operation in various anæsthetic techniques. Various acute phases of mental disease and minor psychological disturbances. Intractable nausea and vomiting.

CH2CH2CH2N(CH3)2HCI

Dosage: Parenteral, 25-50 mgm. up to four times per twenty-four hours. Oral, 25 mgm. three times a day initially, then 75-150 mgm, daily subdivided into at least three parts.

How Supplied: As 10- or 25-mgm. sugar-coated tablets in packs of fifty and 500, as 2.5 per cent. solution in boxes of ten and fifty 2-c.c. ampoules, and as 0.5 per cent, solution in box of ten 5-c.c. ampoules.

FIRST ISSUED: January 1954.

REFERENCES: Dundee et al, Brit.med.J., 1953.2.1237 and 1244. Smith and Fairer, Brit.med.J., 1953.2.1247. Friend and Cummins, J.Amer.med.Ass., 1953.153.480.

MISCELLANEOUS **INQUIRIES**

Massage Cream

Have you a formula for a good general-purpose massage cream?

THE following formula produces an excellent cream for your purpose:-07. White wax Hard paraffin OZ, Soft white paraffin ... Distilled water ... Borax, in powder ... 1½ OZ. 1½ OZ. 1½ dr.

Waterproofing Canvas

Have you a recipe for waterproofing canvas?

THE following process is recommended: Dissolve soft soap in hot water, then add a solution of ferrous sulphate until no precipitate is formed. Collect the precipitate of iron soap, wash it with water, dry it and then mix it with linseed oil. This mixture is applied with a brush to the canvas, and has the advantage that it does not render the latter too stiff.

Cigarette-holder Filters

What are the crystals used in some proprietary cigarette-holders which are claimed to extract the harmful combustion products of tobacco?

A NUMBER of substances have been used to extract or reduce the harmful combustion products of tobacco in cigarettes, but we know of none that are crystalline. The usual method adopted by manufacturers is to saturate cotton wool in solution, allow it to dry and use it as a plug. The solution used in this way is one of the following:

(1) Ferric chloride (50 per cent.)
(2) Tannic acid (15 per cent.)
(3) Phosphotungstic acid
(4) Molybdic acid, plus an alkali

Ferrous ammonium sulphate

More recently we understand that silica gel has been used for the same purpose. It is in the form of granules.

Tick Cream for Sheep

We are seeking information about a tick cream for sheep, stated to contain dibutyl phthalate, in acid and wool-fat base.

Dibutyl phthalate is an insect repellant and has been used effectively in the form of a cream or ointment to protect lambs against tick infestation. Ît is a colourless viscous liquid, easily incorporated in any of the usual oint-ment bases. In field trials carried out in 1947, dibutyl phthalate was used at 20 per cent. strength in a wool-fat base and it was also used at half that strength together with 10 per cent.
DDT in the same base. Both preparations provided effective protection.
Because of the tacky nature of the base, application of this ointment may prove rather messy and tedious if many animals are to be treated. For that reason a thick fluid cream such as the following which can be applied with a sponge may be preferred:

Dibutyl phthalate ... 5 gm. 9 cc. Emulsifying wax ... Triethanolamine Oleic acid Water

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 30: With many business houses in the course of stocktaking and staff holidays in progress trading in Crude Drugs was on a limited scale during the week. Portuguese Ergot for shipment was dearer following reports that the new crop was expected to be a failure.

There was an easing in the forward rates of Cascara sagrada as more deliveries were made to the collecting centres. A report from the United States mentioned that a lumber strike was in progress and that the men had been free to collect cascara bark. African GINGER was dearer on the spot, but Jamaican was unchanged. Newcrop Squill was offered on a c.i.f. basis at 55s. per cwt. for the white. The ARROWROOT crop in St. Vincent is drawing to a close and all of it has been sold. MERCURY rose another £2 10s. per flask with no immediate signs of a break in price. Prices of mercurials were unchanged at the time of going to press. Inquiry for IPECACUANHA continued because of scarcity of offers from origin and no doubt also of the present unrest in Guatemala, Towards the end of the week all spot supplies had been sold. It was difficult to locate any Cochineal; the new-crop position is awaited.

In Pharmaceutical and Fine Chemi-CALS a few commodities are becoming scarce on the spot including Physo-STIGMINE and PILOCARPINE. Whereas manufacturers were willing at one time to shade their published prices for those and a number of other chemicals, their quotations are now distinctly firmer.

In Essential Oils, Chinese Pepper-MINT is dearer on the spot by ninepence per lb. Supplies of BAY are becoming scarce at origin. The price decline in LEMONGRASS was arrested and spot values were raised by sixpence per lb.

Pharmaceutical Chemicals

BENZOIC ACID.—1-cwt. lots are 3s. $0\frac{1}{2}$ d. per lb. The SODIUM SALT is 2s. $10\frac{1}{2}$ d. per lb. in 1-cwt. lots.

Borle Acid.—Prices for B.P. grade in quantities of 1-ton and upwards a e as follows:—Granular, £80; crystal, £87; powder, £84 10s.; extra-fine powder, £86 10s. per ton, in 1-cwt, bags carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but root less than 5 cwt, less per cwt, 3-cwt. not less than 5-cwt., 1s. per cwt., 3-cwt., 2s.; 1-cwt., 3s.

COCAINE. — Rates per oz. are as follows: ALKALOID and SALICYLATE, bottles \(\frac{1}{4}\)-oz., 27s. each; \(\frac{1}{2}\)-oz., 53s. each; 1-oz., 104s.; 4-oz., 103s.; 8-oz., 102s.; 16-oz., 101s.; tins, 25-oz., 100s.; HYDROCHLORIDE and NITRATE, bottles, \(\frac{1}{4}\)-oz., 24s. 6d. each; \(\frac{1}{2}\)-oz., 48s. each; 1-oz., 94s.; 4-oz., 93s. 3d.; 8-oz., 92s. 3d.; 16-oz., 91s. 6d.; tins, 25-oz., 90s. 6d.

GLYCEROPHOSPHATES.—Rates per lb. for l-cwt. lots are as follows:—ACID B.P.C., 20 per cent., 5s, 9d.; CALCIUM, soluble, B.P.C., 11s, 9d.; IRON, B.P.C., scale, 15s, 9d, and powder, 14s, 9d.; MAGNESIUM, soluble B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; PQTASSIUM 50 per cent., B.P.C., 3s, 9d. and 75 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d. GLYCEROPHOSPHATES.—Rates per lb. for

GUAIACOLS. - LIQUID, B.P., is 16s. 3d. per lb. for 28-lb. lots; Crystals, 16s. 9d.; Carbonate, 18s. 3d.

HOMATROPINE.—Current rates (per oz.) or 16-oz. lots are: ALKALOID, 49s.; for 16-oz. lots are: Alkaloid. 49s.; Hydrobromide, 29s, 9d.; Hydrochloride, 42s.; Methylbromide, 40s. 6d.; Sulphate. 41s. 6d. 1-oz. rates are 6d. per oz. higher in all cases.

Hyoscine hydrobromide. — 1-oz. lots are 95s. for British material.

10DIDES. — The current quotations are given below:

10D1DE	per lb.	Quantity		
	s. d.			
Ammonium	19 6	28 lb.		
ARSENIC TRI	45 0	28 lb.		
CADMIUM	20.6	28 lb.		
CALCIUM (PLATES)	20.9	7 lb.		
ETHYL	25 0	28 lb.		
1RON	22.0	7 lb.		
LEAD	. 21 0	7 lb.		
LITHIUM	26 6	28 lb.		
Dominouth (12 7	1 cwt.		
SODIUM	14 7	l cwt.		
	21 0	28 lb.		
STRONTIUM				
ZINC	26 3	7 lb.		

10d. per 10DINE.—RESUBLIMED is 14s. lb. in 1-cwt, lots. Minimum delivered rate for CRUDE is 18s, per kilo.

10D0F0RM,—Powder is 23s. 10d. per lb. in 1-cwt. lots and crystal, 26s. 6d.

PANCREATIN. — 1-cwt, lots, B.P., are now at 8s, 6d, per lb, and U.S.P. at 10s, 6d. pei lb.

Physostigmine.—Rates per kilo; 25-gm. loto are: Alkaloid, 6,031s.; salicylate, B.P., 4,762s.; sulphate, B.P.C., 5,396s. 6d.

PILOCARPINE. — In 100-oz. (or 2½ kilo) lots prices are: Hydrochloride, 42°. 6d. per oz. (1,428s. 6d, per kilo); 38s. per oz. (1,340s. per kilo).

POTASH, SULPHURATED. — B.P.C. lump is 2s. 3d. per lb. for 1-cwt lots.

POTASSIUM BICARBONATE. — B.P. powder is 130s, per cwt.

POTASSIUM BROMATE.—In 5-cwt. lots 75. per lb. In small quantities the prices range up to 8s. 9d, per lb.

POTASSIUM CHLORIDE. - In 1-cwt. lots B.P., is 1s. 6d. per lb.

POTASSIUM HYDROXIDE. — B.P. sticks are from 6s, 6d. per lb.

Pyrogallic acid. — Pure crystals are 18s. per lb. in 1-cwt, lots.

SODIUM CARBONATE. - B.P. exsiccated

is 60s. 6d, per cwt. SODIUM CHLORIDE, - Re-crystallised is

20s, per cwt. SODIUM PHOSPHATE. — B.P. powder is

125s, per cwt. Sparteine sulphate. — Price is 5s. 8d.

per oz.

SULPHACETAMIDE. — Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM DERIVATIVE is 30s.

SULPHAGUANIDINE. - Price per kilo for 500-kilos is 34s. 3d.

SULPHANILAMIDE. -Rates per lb. are now, 5-cwt. lots, 8s. 6d.; 1-cwt., 8s. 8d.

SULPHOCARBOLATES. — SODIUM PHENOL-SULPHONATE, B.P.C. (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., is 5s. 6d.

Crude Drugs

AGAR. — Kobé No. 1 on the spot is from 17s, to 17s, 6d, per lb, Shipment, 15s., c.i,f.

ANISEED. — Chinese star is offered at 200s. per cwt., duty paid and 157s. 6d., c.i.f.

Areca Nuts. — Quotations are about 45s. per cwt. for Ceylon material on the spot. Shipment, 42s. 6d., c.i.f.

Balsams.—Quotations (per lb.) are:-Canada: 21s. 6d. spot. Copaiba, B.P. from 11s. 6d. to 12s. 6d. per lb. as to source. Peru, 9s. in bond. Tolu (genuine as imported), is firmer at 26s. 6d. spot and 26s., c.i.f.

CAMPHOR.—Scarce. Powder and tablets cleared on spot. Shipment offers (c.i.f.) as follows: Tablets (Chinese), ½-oz., 5s. 4d. per lb.; ¼-oz., 5s. 5d.; ½-oz., 5s. 6d.

CASCARA SAGRADA.—Offers of new-crop

are 250s, per cwt., c.i.f. Spot material (old crop) value is 325s., duty paid.

CHILLIES.—Mombasa are 305s, per cwt. on the spot; shipment not offering,

CINNAMON.—Ceylon for shipment (c.i.f.), per lb.; OOOO, 4°, 1d.; OOO, 3°, 11d.; OO, 3°, 9½d.; O, 3°, 7½d.; firsts, 3°, 2d.; 'seconds, 3°, 1d.; thirds, 3°,; quillings, 2°, 3½d.; featherings, 1°, 4½d.; chips, 7½d.

Cochineal.—Spot market almost bare. COLCHICUM.—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

ERGOT. — Portuguese for shipment is dearer at 16s, 6d. per lb., c.i.f., nominal. East-European is 7s. 6d., c.i.f.

GENTIAN. - French natural on spot is firm at 105s, per cwt.

GINGER.—African on the spot is dearer at 195s, per cwt, with shipment offers at 192s. 6d., c.i.f. Jamaican No. 3 is 230s. on the spot and 220s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts on the spot are quoted at 135s. per cwt.; afloat, 128s. 6d., c.i.f., July-August, 132s. 6d., c.i.f.

HONEY.—Quiet. Australian light-amber is unchanged on the spot at from 100s, to 108s, per cwt. and medium-amber, 92s, 6d, to 97, 6d, Argentine is quoted at from 115s, to 120s, and Jamaican from 120s, to 130°.

HYDRASTIS.—Root is 18s. per lb., on the

Kola Nut. - African halves are available on the spot at 53dd. per lb.

Lanolin. — In 1-ton lots the price of ANHYDROUS, B.P., is from 167s. to 185s. per cwt., according to texture. HYDROUS is 145s. in free drums, delivered.

LIQUORICE.—Natural whole root, spot: Anatolian, 60s. per cwt.; Russian, 40s.; Syrian, 35s.; Persian, 37s. 6d. Block juice quotations are 200s. per ewt. delivered. Italian stick, from 310s. to 475s. per cwt., duty paid.

LOBELIA.—Herb is quoted at 3s. 6d. per lb on the spot.

MACE. — West Indian pale blade is 9. per lb.; for shipment, 7s. 10d., c.i.f. MENTHOL.—Spot. Chinese is about

27s. 6d. per lb., duty paid, and for shipment, 25s. 9d., c.i.f. MERCURY. — Nominal spot value is £95 to £97 10s. per flask (76-lb.), ex ware-

house. ORRIS ROOT.—Florentine on the spot is 185s, per cwt.; pro infantibus, 8s, per lb.

PAPAIN.—Spot value for East African grade one is 20s. per lb. Ceylon white is in limited supply at 24s.

PEPPER.—Business steady. White Sarawak is offered at 5s, 6d. per lb., spot, with afloat parcels quoted at 4s, 9d. to 5s., c.i.f. Black Sarawak is unchanged at 4s, 6d. spot and July shipment, 3s., c.i.f. Black Malabar, 505s. per cwt., spot; 370s., c.i.f., June shipment.

RHUBARB.—Scarce. Present offers include a parcel of Shensi on the spot at 10s, 6d, per lb, and rough-round, medium 6s, 10d., duty paid, for a parcel shortly landing.

SARSAPARILLA.—Business has been done in Jamaican native red at 2s. $6\frac{1}{2}$ d. per lb., c.i.f. Spot is about 2s. 9d.

SEEDS.—(Per cwt.). ANISE. — Cyp.ian, 165s., spot London. CARAWAY.—Dutch offering at 145s., duty paid; for shipment, 120s., c.i.f., quoted. CELERY.—Indian in poor demand, sellers quoting 180s, on spot. CORIANDER,—Steady. Spot, Moroccan 60s., duty paid (55s., in bond); English, nominal, 70s. Shipment, Moroccan, lish, nominal, 70s. Shipment, Moroccan, new-crop firm with sellers at 48s. 6d., c.i.f., for July shipment; lower bids have been refused. CUMIN.—Few export enquiries. Spot, Cyprian, 125s.; Moroccan, 127s. 6d., duty paid (115s., in bond). Shipment, Cyprian, firm at 120s.; Moroccan, 102s. 6d., c.i.f., for July-August shipment. DILL.—Indian on spot is quoted at 87s. 6d. FENNEL. — Market quiet with sellers asking for reasonable hids. 87s. 6d. sollers asking for reasonable bids. 87s, 6d, to 90s, quoted spot, Fenugreek.—
Moroccan, 47s. 6d., duty paid. MUSTARD.
—English 65s. to 82s. 6d., according to

Senega.—Spot market bare. dicated from origin for new-crop, July-August shipment, 15s. 6d. per lb., c.i.f.

SENNA. - Tinnevelly LEAVES, (per 1b.) prime No. 1, 10\frac{1}{2}d. to 1s. 1d., as to crop; prime No. 2, 9d. to 11d.; prime No. 3, 7d.; f.a.q., No. 3, 6d.; podd, f.a.q., 6\frac{1}{2}d.; hand-picked, 1s. 4d. to 2s. Alexandrian manufacturing pods, 1s. 10d., spot and 1s. 7d., c.i.f.; No hand-picked spot or forward.

SHELLAC. — Spot quotations are:— F.O.T.N. pure, 315s.; F.O. standard No. 1, 335s., nominal; fine orange, 345s. to 390s. per cwt., ex-London warehouse.

SQUILL.—Italian white on the spot is 76s, per cwt. and new-crop for shipment, 55s., c.i.f.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot and European, 97s. 6d. per

STYRAX.—Spot is 5s. 9d. per lb., duty paid.

TAMARINDS. — Supplies of West Indian are offered at 50s, per cwt., duty paid.

TRAGACANTH.—No. 1 ribbon on the spot is £102 10s. per cwt.; No. 2, £85; No. 3,

TURMERIC. — Madras finger on the spot is quoted at 150s, per cwt. Afloat parcels were offered at 122s. 6d., c.i.f., whereas July shipment was firm at 128s. 6d., c.i.f.

Uva ursi.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s, per cwt, on the spot and from 130s, to 145s., c.i.f. Belgian, 185s., spot.

Vanillin. — Rates (per lb.) are: 5-cwt. lots, 30s.; 1-cwt., 30s, 3d.; 56-30s. 6d.; smaller quantities, 30s. 9d.

Waxes.—Bees.—Dar-es-Salaam. Spot about 485s, per cwt. July shipment, 475s., c.i.f.; Sudanese, 425s., in bond and 425s., c.i.f.; Abyssinian, spot, 475s, and shipment 430s., c.i.f. Benguella, 435s, in bond, nominal and 430s., c.i.f. Candelilla.—Spot is 630s. per cwt. Carnauba.—Prime yellow on the spot is 1,000s. per cwt.; shipment, 940s., c.i.f.; fatty grey is 685s., on the spot; shipment, 655s., c.i.f. Montan.— Reibeck, crude, 130s. per cwt., spot. Spermaceti.—Case lots are about 1s. 9d. per lb. 1s. 9d. per lb.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d, per lb.

Essential and Expressed Oils

Anise. — Spot supplies are offered at 95, $7\frac{1}{2}$ d. per lb. Shipment price quoted at 9. $4\frac{1}{2}$ d., c.i.f.

BAY.-W. Indian is 9s, 6d, per 1b. on the spot.

CARAWAY. - English-distilled is offered at 45s.; imported oils are from 21s. 6d. per lb.; early shipment.

Cascarilla.—Imported is from 320s. per lb.

CEDARWOOD, — Spot quotations for African are from 5s. per lb.

CHAMOMILE. - English-distilled is from 320s. per lb.

CITRONELLA. — Steady. Prices (per lb.) are:—Ceylon. spot, 6s.; July shipment, 5s. 4d., c.i.f.; Java, 6s. 9d., in bond; shipment 7s., c.i.f.; Formosa, 6s. 9d., in bond, and 6s. 9d., c.i.f.

Cod-Liver.—B.P. is 10s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER. — Russian-seed oil is from 130s. per lb., and Dutch at 115s.

CUBEB.—English-distilled is 55s. per 1b. and imported, 47s. 6d.

FENNEL.—Spanish sweet on the spot is quoted from 9s, 6d, per lb.

GINGER. — English-distilled oil is from 120s. per lb. Imported oils are available at from 80s. to 90s. per lb.

HYDNOCARPUS.—Spot is scarce at 2s. 2d.

JUNIPER BERRY, — Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 80s.

LAVENDER SPIKE. — Spanish is about 10s. 9d. per lb.

LEMONGRASS.—East Indian is firmer at 9s, per 1b. on the spot; prompt shipment, 9s., c.i.f.

OLIVE.—New-crop Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 5s. per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool approximately 21s, per gall, for minimum 1-ton lots (5 x 48-gall, drums). French virgin (maximum acidity, 1 per cent.) at £215 and B.P., £210 per 1,000 kilos, c. and f. (equivalent to 19s. 9d, and 19s, 6d, per gall.).

PALMAROSA.—East Indian is 57s. 6d. per lb., on the spot, and 54s., c.i.f., for shipment.

PATCHOULI.—Penang is 55s, per lb. on the spot and 48s, 6d., c.i.f. for prompt

PENNYROYAL. — Spot value is about 11s. 6d. per lb., duty paid.

PEPPERMINT. — Arvensis: Chinese is 19s, 6d, per lb., spot, and 19s, 3d., c.i.f., June-July shipment: Brazilian (45 per cent.), 17s. 6d., spot and 17s. 3d., c.i.f. for shipment. Italian "Mitcham" type oil is from 45s. to 47s. 6d, per lb. on the spot.

PETITGRAIN. — Paraguay on the spot is 25°, per lb., and for July shipment 21s. 6d., c.i.f., is quoted.

PINE.—Pumilionis on the spot is from 6s. per lb.; sylvestris, 9s. Siberian 16s. per lb.; (abietis), 9s. 6d.

ROSEMARY, — Spanish oil on the spot is about 5s. 6d, per lb., duty paid, for B.P. quality.

RUE.—Spot offers are from 12s, 6d, per

SAGE.—Spanish is offered at from 9s, per lb. and Dalmatian at 50s., duty paid.

THYME.—B.P.C. is about 9s. 6d. per lb. TITREE. - Spot supplies are offered at 14s. per lb.

VETIVERT. — Bourbon in original drum; on the spot is 92s, 6d, per lb,

UNITED STATES REPORT

NEW YORK, JUNE 29: Whereas the spot market for Brazilian MENTHOL firmed up further to \$6.35 per lb. (a gain of 10 cents), Japanese MENTHOL prices declined to \$10.50 in contrast with rates of as much as \$14 a short while ago. SODIUM BENZOATE was reported to be moving well under seasonal influences. Call for synthetic VITAMINS remained good, IPECACU-ANHA root prices in the local market have risen by \$1 to \$7.50 per lb. since the situation in Guatemala became acute. Peru BALSAM was up to 20 cents to \$1.60 per lb.

Higher per pound among ESSENTIAL OILS was SANDALWOOD at \$10.50 to \$12.00 as against a previous range from \$10.00 to \$12.00.

HERB CROP REPORT

THE following report on the 1954 herb crop has been received from William

Ransom & Son, Ltd., Hitchin, Herts:— Exceptionally heavy rainfall during June flooded the lower parts of the farm; but with one exception it has not made much difference to the quality of the crops now being harvested.

BELLADONNA.—A good crop but a small part has been spoilt by the excessive rainpart has been spoilt by the excessive rainfall. The young plantation on the other hand has been improved by the moist condition and made good growth.

CHAMOMILE.—This unexpectedly suffered most from weather conditions and only a part of the crop will be sayed.

DANDELION.—The roots will be collected so usual in the autumn.

as usual in the autumn

ELDER FLOWERS.—Conditions have been unfavourable for their collection.

FOXGLOVES.—A good stock of B.P. leaf

is held.

HEMLOCK.—A good crop harvested. The weather conditions have favoured the growth of this plant.

HENBANE.—At the time of harvesting, the

second biennial had grown to a height of six feet. The first biennial has germinated well but weather conditions in July greatly affect this crop. Both varieties are grown.

LAVENDER. - Surprisingly this has not been affected by the rains, although a dry July will undoubtedly improve the yield of oil.

PEPPERMINT.—As in previous years we have increased our acreage. Our new method of cultivation ensures earlier growth in the spring and at the same time reduces hand cultivation. It is still a costly considered to the cost of the cost reduces hand cultivation. It is still a costly crop to grow with farm overheads continually increasing. As the distillation takes place in September it is early to give an opinion on the crop but at present it shows good growth.

POPPY PETALS.—Wet weather has made the collection of petals difficult and costly. POPPY HEADS.—An average crop. RHUBARB. — The crop is sufficient to meet all reasonable demands.

SQUIRTING CUCUMBER.—After many years of little or no demand, the demand for this drug is increasing and we have sold all our stock. It will be 1955 before we are able to offer in wholesale quantities but we are increasing our plantation.

There appears to be an increasing

There appears to be an increasing demand for well tried vegetable drugs in spite of the fact that more of those preparations are left out of each succeeding British Pharmacopæia. "In our opinion, this policy is a bad one, as valuable export business is lost through overseas customers assuming that the omission of a preparation from the B.P. means it is no longer used.'

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," June 16

For anti-freeze compounds; chemical substances for use as additives to petroleum products and chemical solvents derived from petroleum for industrial purposes (1)

Device of a star in a circle bearing the name CALTEX, 725,346, by Regent Oil Co., Ltd., London, W.1.

For chemical substances for use in the manufac-

ture of rubber or of artificial rubber (1)
SILCAFILL, B725,883, by Farbenfabriken
Bayer, A.G., Leverkusen, Germany.

For chemical compounds which indicate temperature by a change of colour (1)

THERMOCOLOR, B726,434, by Badische Anilin & Soda Fabrik, A.G., Ludwigshafen-on-Rhine, Germany.

For chemical products for use in agriculture, horticulture and forestry (1)

727,590, by Shell Chemicals, Ltd., TENAC. London, E.C.3.

For chemical substances for use in impregnating

paper to render it water-repellent (1)
POLYMIN, 727,125, by Badische Anilin & Soda-Fabrik, A.G., Ludwigshafen-on-Rhine, Germany.

For all goods (1)

Device of a daffodil in a circle bearing the words DAFFOD1L Brand, 727,457, by Laporte Acids, Ltd., London, W.1.

For fertilisers (1)

SUSTANUM, 728,316, by Eiler Theodore Lehn Schioler, Dorking, Surrey.

For non-medicated toilet preparations (3) NORMAN HARTNELL, B711,918, by Norman Hartnell, Ltd., London, W.1. SKIN-AKIN, 728,567, by Reckitt & Colman, Ltd., Hull, Yorks.

For rust-removing compounds (3)

Device of a star in a circle bearing the name CALTEX, 725,348, by Regent Oil Co., Ltd., London, W.1.

For all goods (3)

Bellafoline tablets

BEAUTANA, 726,607, by Haering, Goldach,

For pharmaceutical preparations (5)

DAIMOX, 721,407, by American Cyanamid Co., New York, U.S.A.

For pharmaceutical preparations and substances for use in the treatment of thrombosis (5) THROMBOFUG, THROMBOPHOB, 724,614-5,

by Nordmark-Werke, G.m.b.H., Holstein. Germany.

For medicated herbal preparations (5) CHANTRY, 726,447, by Stanley Z. Jackson (Chemists), Ltd., Castleford, Yorks, For all goods (5)

ASPEPSOL, 726,710, by Phenolaine Co., Kent. DARSTINE, 727,870, by Sharp & Dohme, Ltd., Hoddesdon, Herts.

For pharmaceutical and veterinary preparations, all being antibiotic preparations (5)
CLINIMYCIN, 727,948, by Glaxo Laboratories,

Ltd., Greenford, Middlesex.

For pharmaceutical preparations in tablet form, pharmaceutical preparations for use in coating, tablets, lozenges (5)

KEMTERIC, 728,384, by British Chemotheutic Products, Ltd., Bradford, Yorks.

For analgesic preparations (5)

Device of a sword in a circle bearing the name DISPRIN JUNIOR, 728,983, by Reckitt & Colman, Ltd., Hull, Yorks.

For pharmaceutical preparations for human use

for slimming (5) SLIMINCO, 729,276, by John Alan East, Rochester, Kent.

For pharmaceutical preparations for human use and for veterinary use (5)

ROMBOTEST, 729,916, by Evans Medical Supplies, Ltd., Speke, Liverpool.

For photographic and optical apparatus (9) POLLY, 726,708, by Neville Brown & Co., Ltd., London, W.1.

For paper towels, paper handkerchiefs, paper serviettes and toilet paper, none being medicated (16)

TWIN ROSE, 720,584, by Lilla Edets Pappersbruks Aktiebolag, Lilla, Edet, Sweden.

From "The Trade Marks Journal," June 23 For fibrous materials (medicated), medicated tampons, medicated wads and medicated dressings all for therapeutic and surgical purposes (5)

HYDROLAN, 724,580, by Edward Charles Edmund Hemstead, London, N.20.

For pesticides, insecticides, herbicides and disinfectants, all sold in liquid or powder form (5) CELA, 727,288, by Cela Landwirtschaftliche Chemikalien, G.m.b.H., Ingelheim-am-Rhein, Germany.

For deodorants (5)

Device of outstretched hand holding rose with the word KEBIR de BLA1N, 728,135, by Kebir de Blain, La Habana, Cuba.

For pharmaceutical preparations for human use and for veterinary use (5)

REEBEE, 729,251, by Sydney Markham Benson, Liverpool. TEFLONE, 730,078, by Organon Laboratories, Ltd., London, W.C.2.

For surgical, medical, dental and veterinary instruments, and apparatus, all made wholly or mainly of rubber or of foamed rubber latex (9) SORBOPRENE SORBOFOAM 729.391. 729,395, by Sorbo, Ltd., Woking, Surrey.

PRINT AND PUBLICITY

Advertising Campaigns

LTD., Edgware Road, London, CAMILATONE. N.W.9: Tonrinz. In twenty top-circulation women's magazines.

DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1: Valpak cream beauty mask. National advertising being increased.

DALMAS, LTD., Leicester: Dalmaplast, In Picture Post, Illustrated, John Bull, Family Doctor, Woman, Woman's Own, Woman's Weekly, Woman and Home, Housewife, Nursery World, Wife and Home.

EVANOL, LTD., Highbury, London, N.5: Advertising budget increased ten-fold.

W. HAMPSHIRE & CO., LTD., Sunnydale Works, Sinfin Lane, Derby: Snowfire set. In News of the World, Daily Mirror, Sunday Pictorial, Picturegoer, Woman, Woman's Own, Woman's Illustrated, Woman's Weekly.

SCOTT & BOWNE, LTD., 50 Upper Brook Street, London, W.1: Sta-blond liquid shampoo. In leading big circulation newspapers and popular women's magazines, and on Radio Lux-embourg on Sunday nights throughout the

COMING EVENTS

Wednesday, July 7

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, Whitefield, Manchester, Fixture to play for captain's prize.

PRODUCTION EXHIBITION, Olympia, London, W.14. Open until July 14, 10 a.m. to 6 p.m., Sunday excepted.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Bull's Head Hotel, Chislehurst, at 8 p.m. Informal dance. Ticket 5s, from the secretary, Mr. W. E. Walton, 184 High Street, Penge, London, S.E.20.

Thursday, July 8

NATIONAL PHARMACEUTICAL UNION, CONWAY Hall, Red Lion Square, London, W.C.1, at 11 a.m. Conference of Pharmaceutical Committee representatives.

Saturday, July 10

LONDON SECTION, ROYAL INSTITUTE OF CHEM-ISTRY, sports ground, University of London, King's College, Lavender Avenue, Mitcham, Surrey, at 2.30 p.m. Tennis tournament, At 7.30 p.m., dancing. Tickets (tennis tournament 2s. 6d., dance 2s. 6d.) from Dr. W. D. Raymond, Colonial Products Laboratory, Imperial Institute Building, South Kensington, London, S.W.7.

PACKS

C. & D. WEEKLY LIST OF PRICE CHANGES

A Advanced; R Reduced; I.R.P Inclusive Retail Price; *= Tax 25 per cent.; † Tax 75 per cent.

BRAND & CO., LTD. (from Bone and vegetable broth, thin or thick, chicken	June Doz.		L.P.	Belladenal tablets	20 100 500	9	9 R 2 R 7 R	TAILING DEED	RODUCTS ICAL SUPPLI	
broth, or Prune baby	8 0	1	10½ A	Size 250 discontinu Hydergine ampoules		9	0 R 9 R	Praducil 200	10 20	Each 3 9 7 0
EVANS MEDICAL SUPPLIE Pradupen 50	Each 4 6		0 R	sublingual tablets	50 100 30	69 133	6 R 0 R 0 R	400	100 20 100	31 0 4 13 0 1 60 0 9
POTTER & CLARKE, LTD.	10 8	14	3 R	Suomigual tuolets	150 500	48	0 R 4 R	MENIEV & I	AMES, LTD. 1 oz.	Doz. 42 9
Potter's catarrh pastilles* and crystallised catarrh pastilles*	Doz. 12 6	1 :	10 A	P.A.T.A. PF (Prices notified this Articles Trade Association)	week by th			PARKE, DAV Epanutin suspe		z. 1
	TD. (f 30 0 54 0	5	1ly 1) 0 R 0 R	EDWARDS HARLE	Doz		1) 9 A	R. J. REUTE Solid lavender	Ť	
	204 0 held	at clo	0 R se of	The former sizes 4s. 9d. have been di Harlene golden wave wave setting lotion	retailing at iscontinued. set†,	2s. 3d.	and	SANS EGAL LTD. (distribu Sans Egal lips refil	tors: SCOTT	
SANDOZ PRODUCTS, LTD.	. (fron	n July	5)	Uzon brilliantine†		2 Z	6 A	SHARP & DO		

GENATOSAN, LTD. Fissan toilet powder; Calogen tablets (all packs)

5 8 6 80 (LUNDON), WNE, LTD.)
6 9
3 3 6 0 A. J. WHITE, LTD. Neftin pre-mix* 1 lb. Each 50 0



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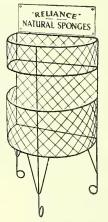
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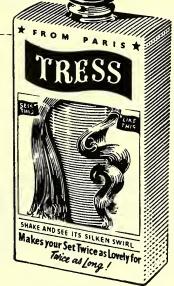
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COLORAL

TRADE PRICE 6/2½d. per doz, cards 75% Tax

RETAIL PRICE 1/2d, per card of two rinses





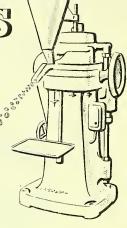
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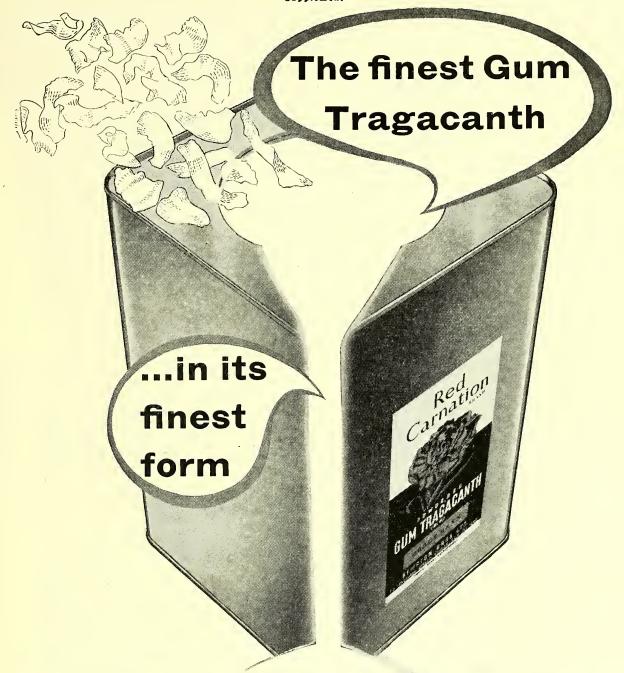




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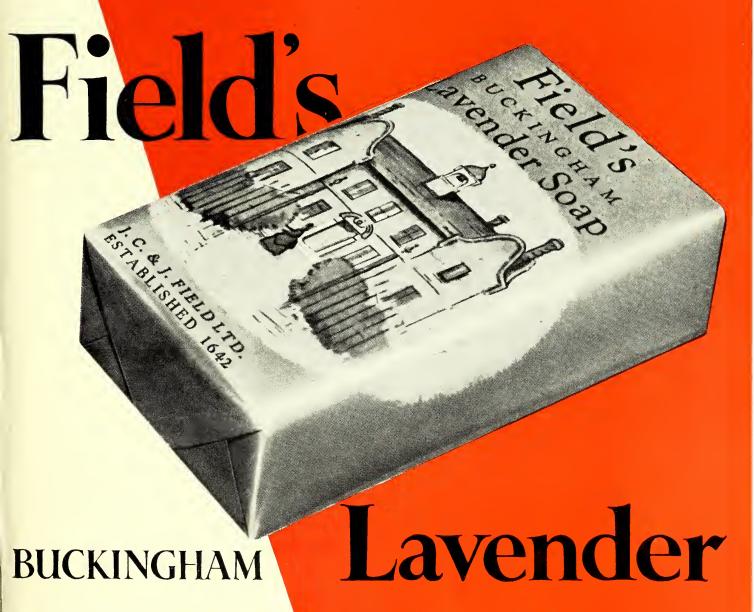


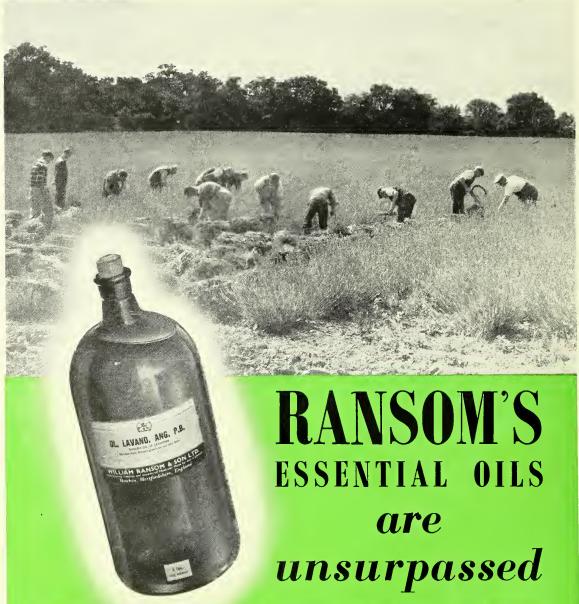
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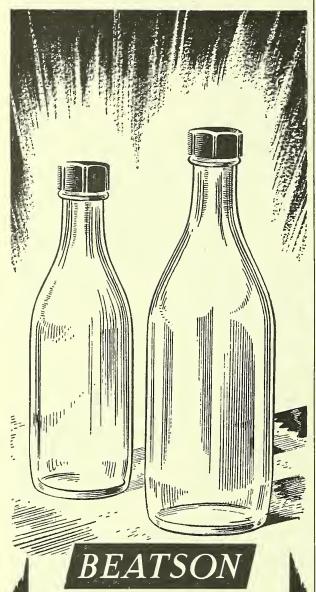


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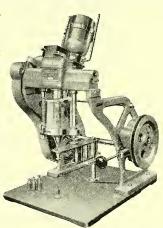
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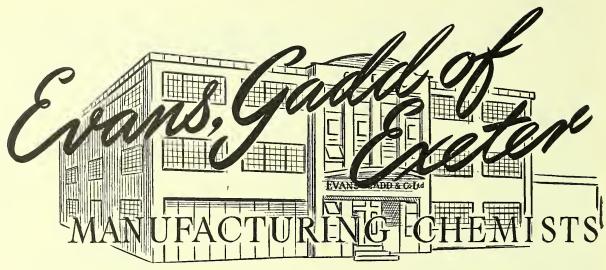
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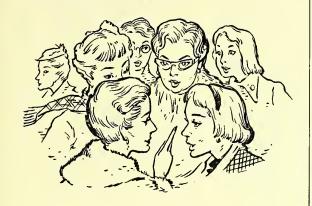
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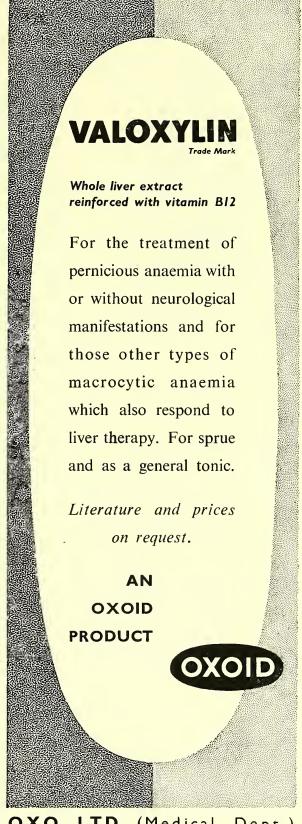
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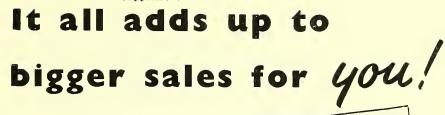


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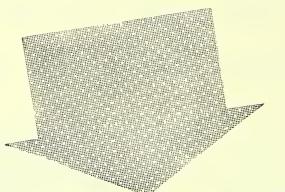
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C 7185

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1. Part-time Assistant-in-Dispensing

1. Part-time Assistant-in-Dispensing for 20 hours a week.

2. Locum Tenens Assistant-in-Dispensing from August 25 to September 11, 1954. Residential accommodation available, if required, at an appropriate charge.

Whitley Council rates of pay and conditions of service apply to both appointments. Applications, giving age and details of past and present experience, and qualifications, if any, together with names and addresses of two referees, to Group Secretary at the Colony by July 12, 1954.

C 7190

NORTHALLERTON HOSPITAL MANAGEMENT COMMITTEE Applications are invited for the appointment of

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Salary and conditions of service in accordance with Pharmaceutical Whitley Council regula-

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Applications are invited for this vacancy at the Darlington Memorial Hospital.
Salary scale for Pharmacist, £450 (age 23) x £25 to £575; for Senior Pharmacist, £525 x £25 to £625.
Applications in writing, together with names of two referees, to the Secretary. C 7244

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for 30 months in first instance. Salary scale (including present temporary allowance of 10 per
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C 7234

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Assistant in Dispensing
(male or female) preferably with Apothecaries
Hall or similar certificate required. National
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apply. Salary (age 22) £335 to £435, plus £15
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Long-term Locum Pharmacist (female)
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(a) Deputy Chief, (b) Senior Pharmacist
Applications are invited for the posts of (a)
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well-equipped department at the above hospital. Inspection of department may be made
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C7230

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LONDON, E.C.1
Locum Pharmaeists
Immediate vacancies exist for Locum Pharmacists until the end of September. Wage £15 15s.
per week. Write, enclosing copies of testimonials, to the Chief Pharmacist. C 7220

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COLLEGE
Principal: D. A. Wrangham, M.Sc.(Lond.),
Sen.Wh.Sc., D.I.C., A.C.G.I., M.I.Mech.E.
Applications are invited for the following
posts in the pharmacy department:—
1. Assistant Lecturer in Pharmaceutical

Candidates must be graduates in pharmacy or chemistry

candidates in the content of the con

Increments may be payable for approved experience.

2 and 3. Demonstrator in Pharmaceutics and Demonstrator in Pharmaceutical Society or a Degree in Pharmacy and be desirous of continuing their studies.

The successful candidates will be required to assist in the teaching of practical classes.

Salary ... £415 per annum.

In each case the successful candidate will be required to commence duties on September 1, 1954, or as soon after as possible.

Further particulars and Forms of Application may be obtained from the Registrar, The Technical College, Sunderland, co, Durham.

Applications should reach the undersigned within fourteen days of the appearance of this advertisement.

advertisement.
Canvassing will be a disqualification,
W. THOMPSON,

Director of Education. Education Offices, 15 John St., Sunderland. Co. Durham.

C 7231

Appointments—Continued

PROVINCIAL ADMINISTRATION OF THE CAPE OF GOOD HOPE. HOSPITALS DEPARTMENT.

HOSPITAL BOARD SERVICE:
Vacancies

1. Applications are invited from qualified persons for appointment to posts of Pharmacist, Grade A, at the various hospitals under this Administration as shown in the subjoined life.

Hospital/Institution
Hospital/Institution
Butterworth Hospital, Butterworth
Cape Town Free Dispensary,
Cape Town

Cape Town Free Dispensary,

Frere Hospital, East London 1
Kimberley Hospital, Kimberley 1
Grey Hospital, King William's Town 1
Livingstone Hospital, Port Elizabeth 1
Frovincial Hospital, Port Elizabeth 1
Sir Henry Elliot Hospital, Umata 1
Groote Schuur Hospital, Cape Town 2
Frontier Hospital, Queenstown 1
Woodstock Hospital, Woodstock 1
2. Remuneration will be at the rate of £600
per annum in the first instance rising by annual increments of £30 per annum to a maximum of £750 per annum,
3. In addition to scale of salary indicated a cost of living allowance at rates prescribed from time to time by the Administrator is payable. The present rate is £234 per annum for married persons.
4. The leave and pension privileges attached to the posts and other conditions of service are governed by the relevant Ordinances and Regulations.
5. Candidates must be qualified chemists and

Candidates must be qualified chemists and

druggists.

6. The successful candidates will be required to submit satisfactory Birth and Health Certificates and their appointment will be subject to the following conditions:—

(a) Appointment will be on contract for 5 years in the case of citizens of a Commonwealth country or the Republic of Ireland and 6 years in the case of citizens of European countries other than the United Kingdom and the Republic of Ireland

zens of European countries other than the United Kingdom and the Republic of Ireland,

(b) Transport expenses (third class by rail overseas and second or cabin class steamship fare and first class by rail in the Union) necessarily incurred by the successful applicants from place of residence to the place of assumption of duty in South Africa, will be defrayed by the Administration provided that, if the contract is broken within one year of the date of assumption of duty, the persons appointed must refund to the Administration the full amount paid in respect of transport expenses, and if the contract is broken within 5 years of the date of assumption of duty in the case of Commonwealth citizens and 6 years in the case of citizens of another European the case of citizens of another European country, the persons appointed shall refund to the Administration the pro rata share of the full amount above referred to in respect of the unexpired period.

The persons so appointed will be offered

The persons so appointed will be offered permanent appointment during the term of contract but not earlier than three years from the date of assumption of duty or with effect from the conclusion of the contract, provided they have passed an examination in Afrikaans as second language, which examination shall not be lower than the standard required for the Junior Certificate Examination of the Department of Education of this Province and provided further that their services and conduct during the period of contract are satisfactory and their state of health is such as will enable them to continue to discharge efficiently all the duties of the post in which they will be employed, employed.

be employed,
7. Application must be made on the prescribed form, Staff 23, which is obtainable
from the Staff Clerk, Room 102, South Africa
House, Trafalgar Square, London, W.C.2,
8. The completed application forms must be
addressed to the Director of Hospital Services, P.O. Box 2060, Cape Town, South Africa,
and must reach him not later than July 31,
1954.

1954, 9. Candidates must state the earliest date on C 7232

ST. BERNARD'S HOSPITAL,

SOUTHALL, MIDDLESEX
Locum Chief Pharmacist
required at the above mental hospital for two consecutive weeks between July 17 and August 21. Salary £16 16s, per week. Apply Group Secretary. Southall 2256. C 7235

SCUNTHORPE HOSPITAL MANAGEMENT COMMITTEE

Chief Pharmacist Senior Pharmacist

Senior Pharmacist
Vacancy end of June for Chief Pharmacist to
group of four hospitals. Category III. Salary
range £680 x £25 to £780, non-resident.
Immediate vacancy for Senior Pharmacist,
salary range £525 x £25 to £625, non-resident.
Both appointments are subject to N.H.S.
Superannuation Regulations. Assistance given to
female applicants in finding residential accommodation. modation.

Applications, with full information, naming two referees to Group Secretary, War Memorial Hospital, Scunthorpe, Lines. C 7207

ST. HELIER HOSPITAL, CARSHALTON, SURREY (731 Beds)

(731 Beds)
Senior Pharmacist
Applications invited from suitably qualified Pharmacists for the post of Senior Pharmacist. This is a busy General Hospital (Category V) which also caters for the requirements of other hospitals in the Group, Easily accessible by London Transport.
Whitley Council conditions, London Weighting payable, Applications, with the names of two referees, to be sent to the Secretary of the Hospital (Ref. C.Z.).

THE LONDON HOSPITAL,

WHITECHAPEL, LONDON, E.1
Locum Registered Pharmacists
required to mid-October 1954, Salary £14 14s,
per week, Dining-room facilities, Write
tary. C 186

THE LONDON HOSPITAL,
WHITECHAPEL, LONDON, E.1
Pharmacist
Applicants must be registered Pharmacists.
Salary scale £450 (age 23) x £25 to £575 plus
London Weighting according to previous expresence and service. Dispression facilities perience and service. Davailable. Write Secretary. Dining-room facilities

THE MILLER GENERAL AND ST. ALFEGE'S HOSPITALS GREENWICH, LONDON, S.E.10 Assistant in Dispensing

Permanent or locum required at each of the above hospitals. Whitley Council rate and conditions. Apply Chief Pharmacists, Tel.: Tid. 1136 and Gre. 2655 respectively. C 7215

THE MILLER GENERAL

THE MILLER GENERAL
HOSPITAL, GREENWICH, S.E.10
(a) Senior Pharmacist, (b) Pharmacist
Applications are invited for the posts of (a)
Senior Pharmacist, (b) Pharmacist in a wellcquipped pharmaceutical department at the
above hospital, Inspection of the department
may be made by arrangement with Chief
Pharmacist, Pharmaceutical Whitley Council
salary and conditions. Applications to Secretary, G. & D./H.M.C., St. Alfege's Hospital,
S.E.10, as soon as possible.

C 7214

THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1 Pharmacist

Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£525) plus London Weighting, £25 forecognised higher qualification. Apply by letter to Chief Pharmacist. to Chief Pharmacist.

WEST MIDDLESEX HOSPITAL, **ISLEWORTH** (Category V) (South-west Middlesex Hospital

Management Committee)

Management Committee)

Pharmacist
required. Salary scale £450 x £25 to £575 plus
London Weighting. Higher qualification allowance £25 per annum. Whitley conditions applicable. Applications stating age, qualifications and experience with names of two
referees to Chief Pharmacist. C 7217

YORK "A" AND TADCASTER HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist and Locum Pharmacist required for the County Hospital, York, Salary and conditions in respect of the permanent ap-pointment as laid down by the Pharmaccutical Whitley Council; locum fee not less than

With the Month of the Month of

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word. Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Schenduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

ANNFIELD PLAIN Co-operative Society, Ltd. Wanted: Pharmacist to manage branch shop which is shortly to be opened at Framwell-gate Moor, Durham. (Rented flat available.) N.U.C.O., scale of wages. Applications, stating age and experience, to be sent to the General Manager, Front Street, Annfield Plain, Stanley, co. Durham. C 1445 EALING. Excellent opportunity for energetic pharmacist to manage nicely fitted branch in pleasant suburban area. Generous salary and monthly bonus. Excellent self-contained flat available near to branch. Good supporting staff. Permanency with generous sickness benefits and pension fund. Apply with full details stating when available for interview to Chief Pharmacist, Grange Road, Leyton, E.10. C 1449 GAMAGES OF HOLBORN require assistant

GAMAGES OF HOLBORN require assistant pharmacist for counter and dispensing duties. Good salary, Pension scheme, Hours: 9 a.m. to 5 p.m. and 1 p.m. Saturdays, Apply 101 Hatton Garden, E.C.1, C 7223 GOLDERS GREEN. Unqualified lady assistant required for high-class family pharmacy, Dispensing and counter experience essential, J. W. Quibell, Ltd., 885 Finchley Rd., Golders Green, N.W.II. Spc. 0068/9. Excellent opportunity for energetic pharmacist to manage busy

HAYES, MIDDLESEX. Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well fitted shop, Adequate assistance, Modern dispensary, Progressive salary with monthly bonus and rota duty payments. Accommodation available if required, Permanency with pension fund, etc. Apply with full details stating when available for interview to Box C 1447.

HFORD. Pharmacist required to manage expanding branch close to busy main line station, Up-to-date dispensary and excellent supporting staff. Self-contained flat available within easy distance of the branch. Attractive salary and bonus scheme, Apply with full details stating when available for interview to Box C 1448.

LADY ASSISTANT required in South London, age 30-40. View to partnership. Free accommodation if necessary, Apply Box C 1475.

MANAGER for pharmacy, small North Essex

age 30-40. View to partnership. Free accommodation if necessary. Apply Box C 1475.

MANAGER for pharmacy, small North Essex country town, opening for optics, good living accommodation, salary and commission basis. State age, refs., married or single, when free, salary required and photograph to S. J. Corden, M.P.S., Grace Court, Woodlands Av., Hornchurch, Essex.

C 1469 NORTH LONDON. Unqualified dispensing assistant required for good-class pharmacy. Previous retail experience essential. Apply with all particulars to John Harley, Ltd., 153 Regency Street. S.W.I.

C 1461 NORTH LONDON SUBURB. Excellent opportunity for experienced pharmacist to manage substantial business, Spacious shop and dispensary, nicely fitted. Good supporting staff. Excellent salary and monthly bonus. Superannuation fund, etc. Accommodation available. Apply Chief Pharmacist, Grange Road, Leyton, E.10.

C 1450 NORTHOLT. Competent lady assistant to take

E.10. C 1430

NORTHOLT. Competent lady assistant to take charge of counter. Experienced window dresser. Knowledge of prescriptions an asset. Congenial situation. Permanency. Jones, Chemist, 155 Church Road, Northolt, Tel.: Waxlow 1817.

C 1440

PHARMACIST MANAGER required for new, well fitted pharmacy, East London, Well experienced dispensing, Salary £750 and generous commission on turnover. Excellent opening for keen, ambitious man. Apply Supt. Pharmacist, Bee Chemists, 515 Cambridge Heath Rd., E.2. C. 1478

PHOTOGRAPHIC ASSISTANT, with fair knowledge of most types of cameras, accessories. Dispensing experience an asset but not essential, For mid-October, Excellent wages for right man, Yeates, Chemists, Stourbridge, Wores.

wores, C 1465
UNQUALIFIED ASSISTANT required, for dispensing and counter. Whole or part-time. State age, experience, salary expected, and when available, to W. J. Boyes, Ltd., 61 Balham Hill, S.W.12. C 1418

RIKER LABORATORIES LIMITED

require experienced representatives, preferably pharmacists, for the following territories, to commence employment in September:

Northern Scotland Eastern Scotland North Lancashire North Midlands West Midlands

Riker representatives receive salary, bonus and expenses. A company car is provided and there is a pensions scheme. The positions offer the opportunity of joining a young and rapidly expanding company with a unique range of medical products. Apply in writing, giving an outline of experience to Managing Director, Morley Street, Loughborough, Leicestershire.

C 7176

A UNIQUE OPPORTUNITY occurs for Qualified Chemist (M.P.S., B.Sc., or A.R.I.C.) to take charge of industrial laboratory dealing with the testing and development of the pharmaceutical products of a firm of national repute in North West London. Pension fund available. Salary in accordance with qualifications, minimum £800 per annum. Write with fullest particulars to Managing Director, Box C 7228.

BIS. 1941 C. Ribbands & Sons The Complete Pharmacy Fitters Shonfronts and Interiors 3 RAVEY ST., BISHOPSGATE, LONDON. E.C.2.

Situations Open—Continued

THE ROYAL ARSENAL Co-operative Chemists, Ltd., will shortly have vacancies as managers for attractive pharmacies in southwest London, and inquiries are invited from pharmacists who are seeking permanent position with superannuation benefits, Apply for appointment to the Staff Manager, Royal Arsenal Co-operative Chemists, Ltd., 71 Powis Street, Woolwich, S.E.18. C 7203 WANTED: PHARMACIST (male or female) as superintendent. House available, rent free. superintendent. House available, rent free. Apply, stating wages required, to the Garn-diffaith & Varteg Co-operative Society, Ltd., Garndiffaith, Mon. diffaith & Varteg Co-operative Society, Ltd., Garndiffaith, Mon. C 1477
WINCHMORE HILL. Lady or gentleman pharmacist required to manage branch pharmacy. Good salary, Pleasant surroundings and working conditions, Apply R. J. Mellowes, 20 Bush Hill Parade, Enfield. C 1481
YORK CO-OPERATIVE CHEMISTS Society, Ltd., have vacancy for a branch manager or manageress, Modern suburban pharmacy. Excellent conditions, including Saturday half-day. Superannuation, good salary and bonus. Flat available. Applications giving age, experience, etc., to York Co-operative Chemists Society, Ltd., 22 Railway Street, York, C 1436
YOUNG PHARMACIST assistant manager, excellent conditions, prospects and salary. House replies treated in strictest confidence. C 1460

RETAIL (OVERSEAS)

A QUALIFIED MAN, preferably single, re-A QUALIFIED MAN, preterably single, required to manage important English pharmacy in Hong Kong, Only men who have received a first-class training in wholesale and retail pharmacy need apply. Living accommodation, staff pension scheme, passage paid, Excellent prospects for the right man. Reply, A. S. Watson & Co., Ltd., 64 Crutched Friars, London, E.C.3. C 1472
NYASALAND: Pharmaceutical Chemist, male or female wanted. Salary #960 plus #60 p.a. to or female wanted. Salary £960 plus £60 p.a. to £1,200. Rent-free quarters. Four-year tour of service with six months leave. Apply Keep Brothers, Ltd., Gt. Charles St., Birmingham, 3.

LOCUMS WANTED

LOCUM pharmacist required July 23 to September 11 inclusive, Experienced staff, No Sunday or half-day duties, Eacott, Teynham, nr. Sittingbourne, Kent. Tel.: Teynham 224,

C 1459
LOCUM PHARMACISTS required for London and suburban areas, Long or short periods July to October, Permanency at conclusion of tour if desired, Salary and expenses basis. Apply to H. Warburton, M.P.S., London Coperative Chemists, Ltd., Grange Road, Leyton, E.10, Phone: Leytonstone 5671. C 1451

WHOLESALE

ALLIED LABORATORIES, LTD., invite applications for the position of medical representative for the territory comprising Tyne and Tees. Previous experience is not an essential qualification but applicants should possess a sound, modern therapeutic background, reside on and know the territory well. The position is a progressive and pensionable one. Remuneration is by way of salary, commission and expenses. Write in first instance to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane; W.1. C 7238

A VACANCY has occurred with a well-known

A VACANCY has occurred with a well-known London house for a representative who has had pharmaceutical training to take over an established connection in London, Remuneration by salary and commission. Apply, stating age and fullest details, Box C 7245.

AN OPPORTUNITY occurs for a pharmacist in the packaging division of a well-known firm of chemical manufacturers near London. The engagement is on the manufacture and packaging of ethical products, with opportunity for experiment in production and control methods. Salary according to qualifications and experience with prospects of advancement, Five-day week. Canteen facilities. Apply giving full details of qualifications and experience to Box C 7248.

BIOREX LABORATORIES, LTD. Sales rep-

ence to Box C 7248.

BIOREX LABORATORIES, LTD. Sales representative required for expanding travellers' force, calling on retail chemists with drugs, galenicals, ethicals, patents, dressings and sundries. Pharmacists preferred but experienced representative, non-qualified, considered. Carowners with established connection in London and Home Counties. Also Industrial Representative for London required. Apply with full particulars to the Managing Director, 47 Exmouth Street, London, E.C.1. C 7226

BOOTS PURE DRUG CO., LTD., Medical Department

Medical Department
require a young man with a scientific
background to prepare technical literature
for the information of the medical profession, abstract reviews and abstracts.
The position offers good prospects of advancement, and the successful candidate
will be eligible for the company's permanent staff and pensions scheme after
a satisfactory probationary period and the
passing of a medical examination. Apply
to the Personnel Manager, Boots Pure
Drug Co., Ltd., Station Street, Nottingham, stating age, qualifications and experience. C 7219

BOTTLE TRAVELLER WANTED. Salesman BOTTLE TRAVELLER WANTED. Salesman/representative required with previous experience in selling bottles, jars and screw caps. Write giving full particulars to Reliance Trading Company, 13 New College Parade, Finchley Road, London, N.W.3. C 7191 CHEMIST REQUIRED by progressive, internationally known firm in Southern England. Degree in chemistry, or equivalent, with some experience in cosmetic or pharmaceutical fields essential. Preferably age 30-40. Salary according to qualifications and experience, but minimum of £1,000 p.a. Rapid progress and bright future for man of ability and real enthusiasm. Write fully to Personnel Manager. Box C 7169.

EVANS MEDICAL SUPPLIES, LTD. Senior Analyst

Senior Analyst

To fill vacancy shortly arising through promotion, Evans Medical Supplies, Ltd., require a senior analyst for analytical control of pharmaceutical preparations, Applicant should hold a pharmaceutical qualification, B.Sc. or A.R.I.C. and should have previous experience in analysis of pharmaceuticals, The post is pensionable. Apply, with details of age, qualifications and experience to Pharmaceutical Development Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

ANALYTICAL ASSISTANT (male or female) for control laboratory. Five-day week. Non-contributory pension scheme. Canteen. Chiswick area. Box C 7225, FURTHER EXPANSION of the medical sales

wick area, Box C 7225.

FURTHER EXPANSION of the medical sales force of Genatosan, Ltd., a member of the Fison Group, provides opportunities for medical representatives to cover general practitioners, hospital medical officers, etc., in the following areas:—Glasgow, Leeds/Bradford, Birmingham, Bristol/Cardiff. These are well-remunerated posts with incentives and good prospects for keen and energetic young men, possessing the ability and desire to make a success of this specialised work. Full personal details, with summary of attainments and experience, should be addressed to:—The Personnel Officer, Genatosan, Ltd., Loughborough, Leicestershire. Please quote reference "S/MED."

PARKE, DAVIS & COMPANY, LIMITED, invite applications from young pharmacists for an interesting appointment in sales department in which initiative and organising ability are required. The appointment is progressive and pensionable with 5-day week and staff restaurant facilities available, Applications in writing to Personnel Manager, Staines Road, Hounslow, Middlesex.

C 7246 PROCESS WORKERS required for the manufacture of creams and ointments and for tablet granulations. Previous experience essential, Apply with full particulars to 66-76 Park St., Southwark, S.E.I.

C 7246 REPRESENTA'IIVES required for London area. Salary, commission and expenses. Full details to Spa Brushes, Ltd., Freeman Works, Chesham,

Salary, commission and expenses. Full details to Spa Brushes, Ltd., Freeman Works, Chesham, Salary, commission and expenses, Full details to Spa Brushes, Ltd., Freeman Works, C 7239
THE ALLIED DRUG & CHEMICAL CO. require the services of a further representative owing to expansion. Knowledge of sundry lines essential. No objection to other non-competitive lines being carried, District North of the Ihames, Apply Managing Director, 1 Robert St., N.W.1. (Euston 6531.)

THE BRITISH DRUG HOUSES, LTD., have vacancies for laboratory technicians, either sex, to assist in the investigation and development of new products. Candidates should preferably have a pharmaceutical background, possess qualities of industry and dependability, and should have completed their National Service. Five-day week, pension scheme, canteen and sports club. Apply in writing, stating age and experience to Personnel Officer, Graham Street, Islington, London, N.1. C 7218
THE DALES TABLET MAKERS, LTD., require ambitious and reputable representative for the Midlands and North of England areas; must be car owner; duties to commence August 30. Full details of experience and salary required to Managing Director, Barrows Lane, Steeton, nr. Keighley, Yorks.

C 7240
THE SERVICES of a young pharmacist are required to control D.D.A. and serve as manager in wholesale chemists. Progressive position with good commencing salary. Apply Samuel Smith, Esq., Ph.C., Managing Director, Allied Drug & Chemical Co., 1 Robert Street, Hampstead Road, N.W.1. (Eus. 6531.)

C 7200

THOMAS KERFOOT & CO., LTD.

Representative
Applications are invited for the post of representative to call upon retail chemists in an area comprising the greater part of Yorkshire. Preference will be given to applicants resident on the territory and possessing pharmaceutical qualifications. Please write to the Sales Manager, Thos. Kerfoot & Co., Ltd., Vale of Bardsley, Ashton-under-Lyne, C 72: Ashton-under-Lyne.

'UNISEC' from the Single Unit to the Complete Pharmacy

WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING

MYERS of OLD ST. 133/5 & 141/7 OLD STREET, LONDON, E.C.I

Situations Open—Continued

Situations Open—Continued

TOKALON, LTD., require additional representatives for territories in London and Wales, Applicants must be car owners and existing connections with chemists within these areas will be an advantage, Remuneration by salary, commission, car allowance and expenses, Write, stating age and experience, to Tokalon, Ltd., 24 Gilbert St., London, W.1. C 1471

TWO REPRESENTATIVES required by cosmetic organisation of national repute, about to introduce a new beauty series at highest level, one to cover Surrey, Sussex, Kent, Hants and South London, and the other to cover the Midlands, Applications are invited from representatives with a record of successful selling in the cosmetic field, able to justify earnings of at least £1,000 per annum. Details in confidence to the General Manager, Box C 7221.

WRIGHT LAYMAN & UMNEY, LTD., invite applications from pharmaceutical chemists for the post of assistant research and analytical control chemist. Five-day week; canteen available; salary according to age and experience. Recently qualified members are also invited to apply. Full details of experience in writing should be sent to the Managing Director, 46 Southwark St., London, C 7247

WHOLESALE (OVERSEAS)

EVANS MEDICAL SUPPLIES, LTD.
BURMA PHARMACEUTICAL INDUSTRIES
Evans Medical Supplies, Ltd., wish to
interview chemists and pharmacists interested in a manufacturing career overseas.
Training in Liverpool would be given
where necessary and successful applicants
would be offered posts of responsibility
with attractive salary and terms of service.
Applications in confidence to General
Manager, B.P.I., Evans Medical Supplies,
Ltd., Speke, Liverpool, 19, C 7179

PHARMACIST required with managerial experience for Rhodesian turing chemists. Capital investment desirable, Apply: Pharmador, Post Office Box 422, East London, South Africa.

EAST AFRICA

EAST AFRICA

A Pharmacist is required early in 1955 to manage a pharmacy agency in Nairobi; experience in a wholesale business, though not essential, would be an advantage. The post is progressive, carrying a good starting salary and should attract a man wishing to make a career overseas. Contracts are for two years (renewable) followed by two months leave on full pay. Interview in London this month, Write giving particulars of age, marital status, education and experience. Box C 7241,

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word. Box 1/-

RETAIL (HOME)

MALE (unqualified), fully experienced, available August 1-8 inclusive. Surrey, Sussex or London, Dispensing or counter or both, Box C 1470.

LOCUMS SEEKING ENGAGEMENTS

CHEMIST available for locums August 16—Sept. 25. Seaside towns preferred. North or South England. Box C 1458,

WHOLESALE

TRAVELLER, visiting hospitals, open to take on additional lines, London area, invites replies to Box C 1464.

-IMPORTANT-

Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

GENTLEMAN with long, sound, general and executive experience of the chemist trade, wholesale, manufacturing, import and export, sales management, seeks sound position with a reliable firm, Box C 1476,

AGENCIES

17/6 for 36 words (min.) then 4d. per word. Box 2/-

SOAPS. Old-established company marketing toi-BUAPS. Old-established company marketing tollet and modicated to chemists and Co-ops, have agencies vacant in S. Wales, West Country, S. England, Ulster. Full details, please, in confidence. Apply Box C 1473.

SURGICAL DRESSINGS representatives calling regularly on chemists to offer speciality line. Commission basis. Exclusive territory. Dctails, experience, area covered to Box C 7222.

Details, C 7222.

AGENCIES WANTED

8/6 for 36 words (min.) then 3d, per word, Box 2/-

DESIRE TO SHARE or purchase manufacturing rights for East and West Pakistan and Afghanistan for any of the following renowned brands of sundry and toilet goods, viz.: Soaps, tooth-pastes, hair creams/oils, snow, blades, polishes, patent medicines, drugs, infant milk, foods, confectionery. Can give first-class references, Please contact Akbarali & Co., Khori Gardens, Karachi, 2. Cable: "Chimney." EUROPEAN REPRESENTATION SERVICE offered to companies trading with Continent, Scandinavia and Finland. Englishmen advertising have for several years personally visited and dealt with manufacturing chemicist, wholesalers, merchants and agents throughout area with pharmaceuticals, toilet goods, perfumery, chemicals. Market research, local manufacture or selling agents arranged. Important customers visited, Difficulties solved and personal interest and touch maintained. Quarterly visits. Further information, costs for entire Continent or single countries from Box C 1462.

BUSINESS OPPORTUNITIES

17/6 for 36 words (min.) then 4d. per word, Box 2/-

GENTLEMAN desirous of taking an active and financial interest in a sound private limited company, write giving fullest details of experience and capital available to Bromfields Company Registration Agents, 27 Chancery Lane, London, W.C.2, Hol, 0924, C 7233 MANUFACTURER would like to contact party able to guarantee a bulk turnover in aspirin tablets of one million weekly at standard rates. Remuneration 50/50. Box C 7224, MANUFACTURING CHEMISTS invite inquiries for the manufacture, packing, etc., of private formulæ preparations, liquids, powders, tablets. Dispatch facilities available with own printing department, Frank Macowal & Yanatas, Ltd., Willshaw St., London, S.E.14, Tel.: Tideway 3846-8. C 122 SEIDLITZ, POWDER AND LIQUID PACKING. Manufacturing chemists with modern equipment invite inquiries for "customer's own name" packing under contract. Storage and delivery facilities also available. Box C 1442. WRITE FOR PARTICULARS and leaflets of

WRITE FOR PARTICULARS and leaflets of whate FUR PARTICULARS and leaflets of the advantages of converting your business into a private Ltd. Co. Capital available for busi-ness expansion. Bromfields Company Regis-tration Agents, 27 Chancery Lane, London, W.C.2. Tel.: Hol. 0924. C 192

WANTED

17/6 for 36 words (min.) then 4d. per word. Box 2/-

MIXER OR MIXER-HOMOGENISER for 5 gallons cream. Also 5-gallon stainless steel container with run-off tap. S. Fox, B.Pharm., Ph.C., 409 Barking Road, East Ham, E.6. C 1463

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons. packaging ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks, Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3, C 153 BIOREX LABORATORIES, LTD. Wanted: Second-hand plant: Autoclave approx, 28 in., x 50 in., gas or electrically heated, W.P. 20-lb., for sterilisation of injections; electric sterilising oven; automatic ampoule cutting machine; 30-50 gall, melting pans, oil jacketed, gas or electrically heated; tube filling machine (hand); water stills, gas or electric; labelling machine. Apply 47 Exmouth Street, E.C.1. C7227 E.C.1. C 7227

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Lawrence Edwards & Co., Ltd., 6/7 Wellingston Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020, 7692. C 140

MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word. Box 2/-

MODERN CHEMIST SHOP fittings, drug ranges; wallcases and frameless sliding doors, display counters and showcases; all styles of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14/16 Manchester Street. Liverpool.

C 141
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